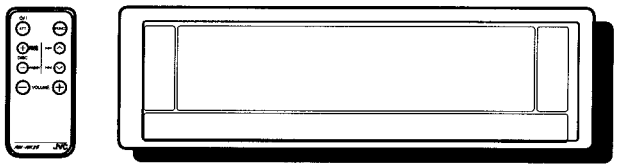
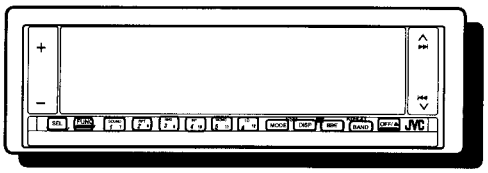
JVC

SERVICE MANUAL

CD RECEIVER

KD-LX1
KD-LX3 KD-LX3R





*KD-LX1 (with out Remote control unit)

Area Suffix
(KD-LX1 & KD-LX3)

J -------- Northern America

Area Suffix
(KD-LX3R)

E ---------Continental Europe

BBE®

COMPACT disc DIGITAL AUDIO TEXT

RDS EON

KD-LX3R ONLY

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No.49511
Apr. 1999

Safety precautions

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

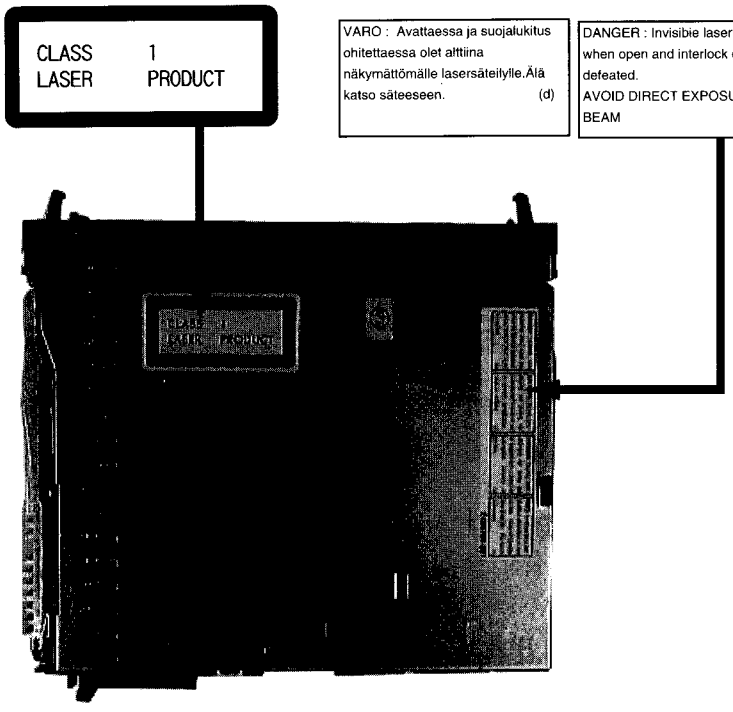
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.



VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)

DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)

ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)

WARNING LABEL

Important for laser products (for J version only)

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

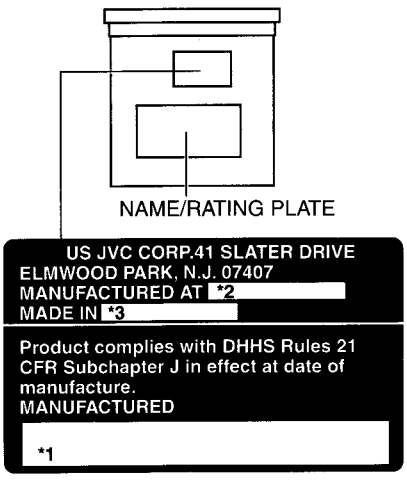
5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Identification and Certification labels

Bottom of the main unit


NAME/RATING PLATE
US JVC CORP.41 SLATER DRIVE
ELMWOOD PARK, N.J. 07407
MANUFACTURED AT *2
MADE IN *3
Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
MANUFACTURED
*1

Notes:

**1 The date of manufacture.*
**2 The ID code of manufacturing plant.*
**3 Marking of country origin.*

Comparison table between each model

Item	KD-LX1	KD-LX3	KD-LX3R
Area Suffix	J	J	E
Receiving Band	FM/AM	FM/AM	FM/MW/LW
Display Form for Clock	12 hour	12 hour	Selectable to12/24 hour
Remote Control Unit	No attachment	Attachment	Attachment
DAB	Un-correspondence	Un-correspondence	Able to connect DB
RDS	Un-correspondence	Un-correspondence	Correspondence
Sub-woofer Control	Un-correspondence	Correspondence	Correspondence
Area Change	Correspondence	Correspondence	Un-correspondence
Station Name Memory	Correspondence	Correspondence	Un-correspondence
TEL Mute	Un-correspondence	Un-correspondence	Correspondence
Adjusting for LCD Contrast	Un-correspondence	Correspondence	Correspondence
Line Output for Front	Un-correspondence	Correspondence	Correspondence
Sub woofer Output	Un-correspondence	Correspondence	Correspondence
Line Input	Un-correspondence	Correspondence	Correspondence

Instructions (Ommit to the KD-LX1)

JVC

ENGLISH

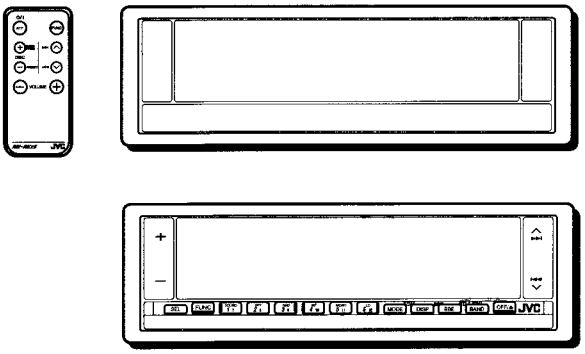
CD RECEIVER KD-LX3

ESPAÑOL

RECEPTOR CON CD KD-LX3

FRANÇAIS

RECEPTEUR CD KD-LX3



COMPACT disc DIGITAL AUDIO TEXT

BBE®

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

LVT0289-001A
[J]

ENGLISH

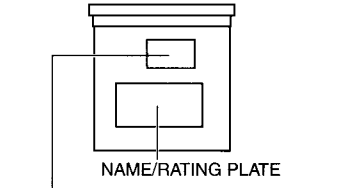
INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Identification and Certification labels

Bottom of the main unit



NAME/RATING PLATE

US JVC CORP.41 SLATER DRIVE
ELMWOOD PARK, N.J. 07407
MANUFACTURED AT *2
MADE IN *3

Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
MANUFACTURED
*1

Notes:

**1 The date of manufacture.*
**2 The ID code of manufacturing plant.*
**3 Marking of country origin.*

IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

Precautions:

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation, however, is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

BEFORE USE

** For safety....*

- *Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.*
- *Stop the car before performing any complicated operations.*

** Temperature inside the car....*

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

ENGLISH

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

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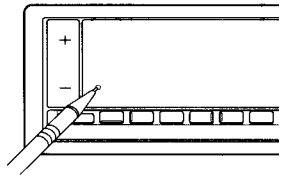
How to Reset your unit



After installing the unit or when you have troubles with operations, reset the microcomputer built in this unit.
Press the reset button on the front panel using a ball-point pen or a similar tool.

- REMEMBER your preset adjustments such as preset channels or sound adjustments will also be erased from memory.

ENGLISH

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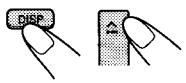
To activate "DEMO" (Demonstration)



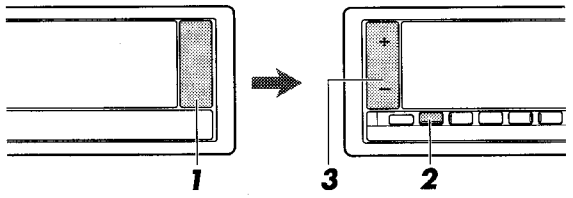
While holding DISP, press ∧ ►►I until "DEMO" appears on the lower part of the display.
Various functions and display illumination modes equipped for this unit will be demonstrated repeatedly in sequence.
• The DEMO mode will turn off automatically after 1 hour.

To turn off the DEMO mode, press ∧ ►►I again while holding DISP until "DEMO" disappears from the lower part of the display.

How to use the number buttons:

After pressing MODE (while "MODE" remains on the display), the number buttons work as other different function buttons.
To use these buttons as number buttons after pressing MODE, wait for 5 seconds without pressing any number button so that "MODE" disappears from the display.
• Pressing MODE again also erases "MODE" from the display.

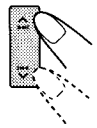
BASIC OPERATIONS



Note:
When you use this unit for the first time, set the built-in clock correctly, see page 20.

ENGLISH

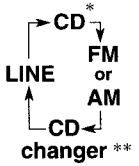
1



Turn on the power.
The display illuminates and the control panel comes out.

2

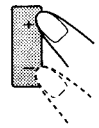
Select the source.
Each time you press the button, the source changes as described to the left:



To operate the tuner, see pages 6 – 10.
To operate the CD player, see pages 11 – 15.
To operate the CD changer, see pages 32 – 35.
To operate the external component connected to the LINE IN plugs, see page 36.

Notes:
* *If a CD is not in the loading slot, you cannot select CD as the source to play.*
** *Without connecting the CD changer, you cannot select it as the source to play.*

3



Adjust the volume.

Volume level meter

4

Adjust the sound as you want (see pages 16 – 19).

To drop the volume in a moment

Press FUNC (function) for more than 1 second while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button for more than 1 second again.

To turn off the power

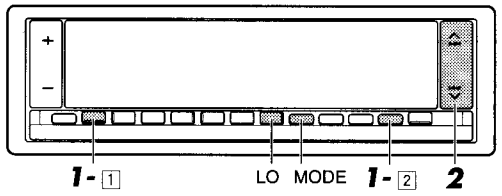
Press and hold OFF/ ▲ until "SEE YOU" appears on the display.

RADIO OPERATIONS

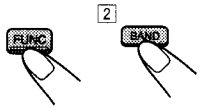
Listening to the radio

You can use either automatic searching or manual searching to tune into a particular station.

Searching a station automatically: Auto search



1



Select the band.

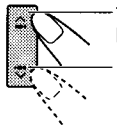
1 Press FUNC to select the tuner as the source.
2 Press BAND to select the band (FM1, FM2, FM3 or AM).

Selected band (then clock time: see page 25) appears.

Level meter (see page 25)

Note:
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2



To search stations of higher frequencies

To search stations of lower frequencies

Start searching a station.

When a station is received, searching stops.

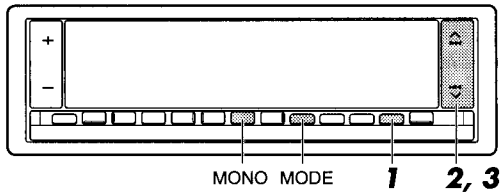
To stop searching before a station is received, press the same button you have pressed for searching.

To tune in FM stations only with strong signals

This function works only while searching FM stations, including SSM preset (see page 8).

1 Press MODE.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press LO (Local), while "MODE" is still on the display, so that the LOCAL indicator lights up on the display.
Each time you press the button, the LOCAL indicator lights up and goes off alternately.

Searching a station manually: Manual search

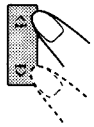


1

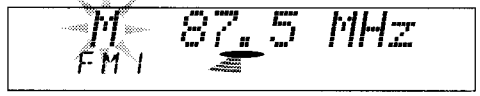
Select the band (FM1, FM2, FM3 or AM) you want.

Note:
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

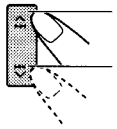
2



Press and hold ∧ ►►I or I◄◄ ∨ until "M" (Manual) starts flashing on the display.



3



To tune into stations of higher frequencies

To tune into stations of lower frequencies

Tune into a station you want while "M" is flashing.

- If you release your finger from the button, the manual mode will automatically turn off after 5 seconds.

When an FM stereo broadcast is hard to receive:

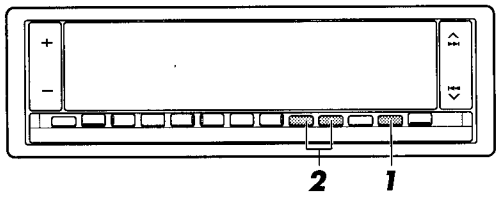
1 Press MODE while listening to an FM stereo broadcast (the ST indicator lights up while receiving an FM stereo broadcast).
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press MONO (monaural), while "MODE" is still on the display, so that the MO indicator lights up on the display.
The sound you hear becomes monaural but reception will be improved (the ST indicator goes off).
Each time you press the button, the MO indicator lights up and goes off alternately.

Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.
- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations

FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).

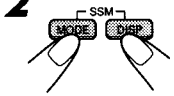


1

Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.

→ **FM1** → **FM2** → **FM3** → AM

2



Press and hold both buttons for more than 2 seconds.

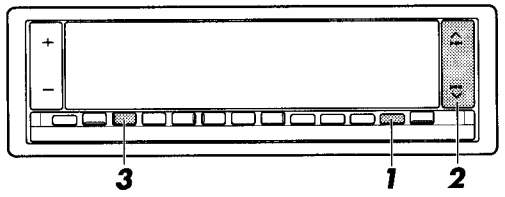
"SSM" appears, then disappears when automatic preset is over.

Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

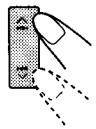
EXAMPLE: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band



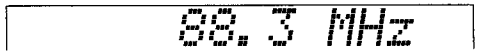
1

Select the FM1 band.

2

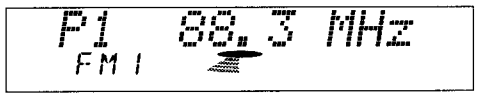


Tune into a station of 88.3 MHz.
See page 6 to tune into a station.



3

Press and hold the number button (in this example, 1) for more than 2 seconds.



FM band number and "MEMO" appears alternately for a while.

4

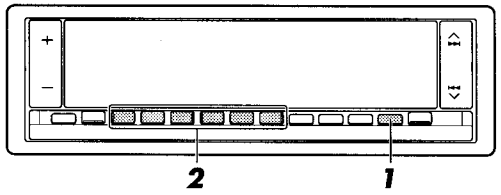
Repeat the above procedure to store other stations into other preset numbers.

Notes:
- *A previously preset station is erased when a new station is stored in the same preset number.*
- *Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.*

ENGLISH

Tuning into a preset station

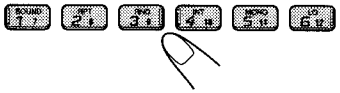
You can easily tune into a preset station.
Remember that you must store stations first. If you have not stored them yet, see pages 8 and 9.



1

Select the band (FM1, FM2, FM3 or AM) you want.

2



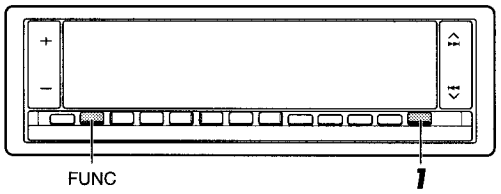
Select the number (1 – 6) for the preset station you want.

When using this unit in an area other than North or South America:
You need to change the AM/FM channel intervals. See "To change the AM/FM channel intervals" on page 26.

ENGLISH

CD OPERATIONS

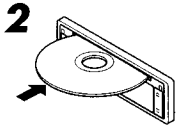
Playing a CD



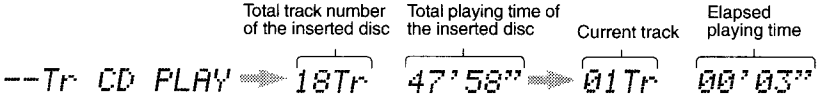
1

Open the loading slot.
The display panel moves down, and the loading slot appears.

2



Insert a disc into the loading slot.
The unit draws a CD, the display panel moves up, and CD play starts automatically.



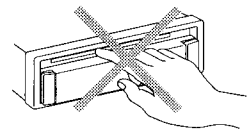
Notes:
- *When a CD is in the loading slot, selecting "CD" as the source by pressing FUNC starts CD play.*
- *When a CD is inserted upside down, "DISC EJECT" appears on the display and the CD automatically ejects.*
- *When you play a CD Text, the disc title and performer appear on the display. Then the current track and elapsed playing time appears on the display. See also "Playing a CD Text" (page 12) and "To select the scroll mode" (page 26).*
  If a CD Text includes much text information, some may not appear on the display.

To stop play and eject the CD

Press OFF/⏏ briefly.
CD play stops, the display panel moves down, then the CD automatically ejects from the loading slot.
• If you change the source, the CD play also stops (without ejecting the CD this time).

To close the display panel, press ∧ ▶▶| or |◀◀ ∨.

CAUTION: NEVER insert your finger between the display panel and the unit, as it may get caught in the unit.

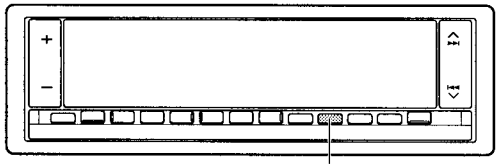


Note:
If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)

ENGLISH

Playing a CD Text

In a CD Text, some information about the disc (its disc title, performer and track title) is recorded. You can show these disc information on the display.



Select text display mode while playing a CD Text.

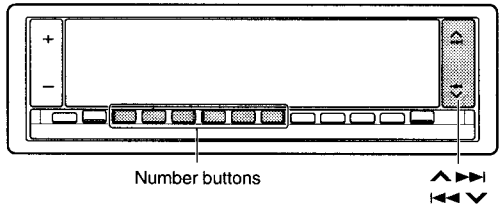
Each time you press the button, the display changes as follows:

Disc Title / Performer → Track Title → Current track no. and Elapsed playing time

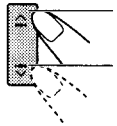
Notes:

- *The display shows up to 12 characters at one time and scrolls if there are more than 12 characters. See also "To select the scroll mode" on page 26.*
- *When you press DISP while playing a conventional CD, "NO NAME" appears for the disc title/ performer and the track title.*

Locating a track or a particular portion on a CD



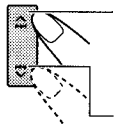
To fast-forward or reverse the track



Press and hold ∧ ▶▶I, while playing a CD, to fast-forward the track.

Press and hold I◀◀ ∨, while playing a CD, to reverse the track.

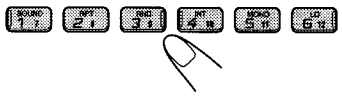
To go to the next tracks or the previous tracks



Press ∧ ▶▶I briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press I◀◀ ∨ briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

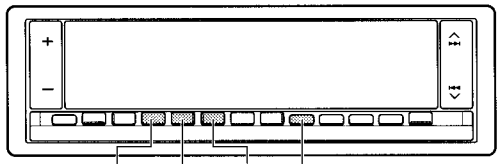
To go to a particular track directly



Press the number button corresponding to the track number to start its playback.

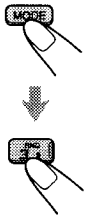
- To select a track number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

Selecting CD playback modes

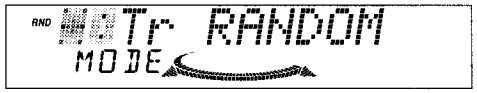


To play back tracks at random (Random Play)

You can play back all tracks on the CD at random.

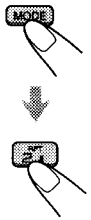


1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display.
Each time you press the button, CD random play mode turns on and off alternately.
When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.



To play back tracks repeatedly (Repeat Play)

You can play back the current track repeatedly.

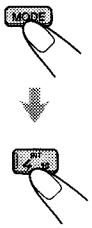


1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press RPT (Repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.
Each time you press the button, CD repeat play mode turns on and off alternately.
When the repeat mode is turned on, the RPT indicator lights up on the display.

Track number of the currently playing track

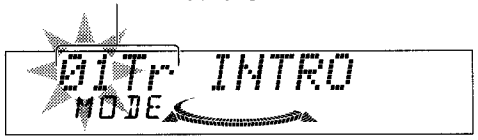
To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.

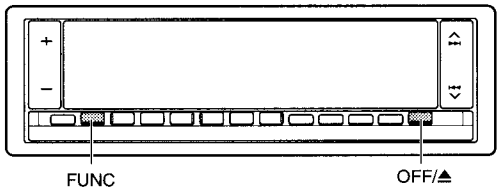


1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press INT (Intro), while "MODE" is still on the display.
Each time you press the button, CD intro scan mode turns on and off alternately.
When the intro scan mode is turned on, "INTRO" appears on the display for 5 seconds and the track number flashes.

Track number of the currently playing track



Prohibiting CD ejection



You can prohibit CD ejection and can lock a CD in the loading slot.

While pressing FUNC (Function), press and hold OFF/⏏ for more than 2 seconds. "NO EJECT" flashes on the display for about 5 seconds, and the CD is locked and cannot be ejected.

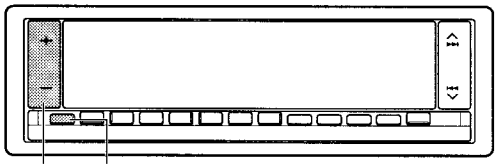
To cancel the prohibition and unlock the CD, press and hold OFF/⏏ for more than 2 seconds again, while pressing FUNC. "EJECT OK" flashes on the display for about 5 seconds, and the CD is unlocked.

SOUND ADJUSTMENTS

ENGLISH

Adjusting the sound

You can adjust the sound characteristics to your preference.



1

Select the item you want to adjust.

BASS → TREBLE → FADER → VOLUME ← WOOFER ← BALANCE

Indication	To do:	Range
BASS	Adjust the bass	–06 (min.) — +06 (max.)
TREBLE	Adjust the treble	–06 (min.) — +06 (max.)
FADER*	Adjust the front and rear speaker balance	R06 (Rear only) — F06 (Front only)
BALANCE	Adjust the left and right speaker balance	L06 (Left only) — R06 (Right only)
WOOFER	Adjust the subwoofer output level	00 — 08
VOLUME	Adjust the volume	00 (min.) — 50 (max.)

Note:

* *If you are using a two-speaker system, set the fader level to "00."*

2

Adjust the level.

Note:

Normally + / – button works as the volume control. So you do not have to select "VOLUME" to adjust the volume level.

Turning on/off the BBE function

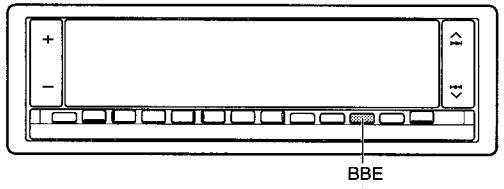
The BBE* function restores the brilliance and clarity of the original live sound in recording, broadcasts, etc.

When a speaker reproduces sound, it introduces frequency-dependent phase shifting, causing high-frequency sounds to take longer to reach the ear than low frequency sounds. The BBE function adjusts the phase relationship between the low, mid and high frequencies by adding a progressively longer delay time to the low and mid frequencies, so that all frequencies reach the listener's ears at the proper time.

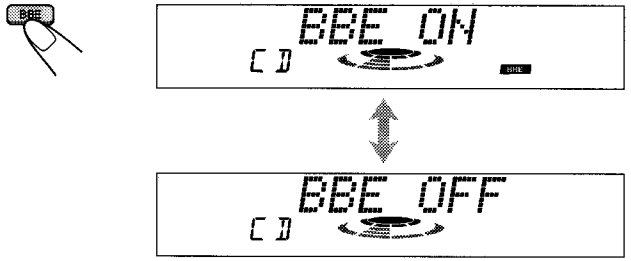
In addition, the BBE function boosts low and high frequencies, which loudspeakers tend to be less efficient in reproducing, through dynamic, program-driven augmentation. When combined with the phase compensation feature, the resulting sound has a clearer, more finely detailed "live" presence.

* *Under license from BBE Sound, Inc.*

BBE is a trademark of BBE Sound, Inc.

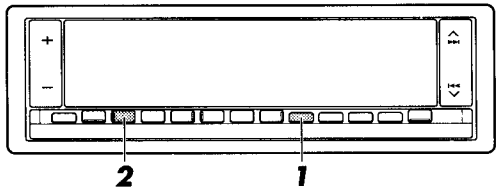


Each time you press BBE, the BBE function turns on and off alternately.



Selecting preset sound modes

You can select a preset sound adjustment suitable to the music genre.



1

Light "MODE" on the lower part of the display.
The number buttons can work as different function buttons.

Within 5 seconds

2

Select the sound control mode (SCM) you want.
Each time you press SOUND, the sound control mode (SCM) changes as follows.

→ SCM BEAT → SCM SOFT → SCM POP → SCM OFF

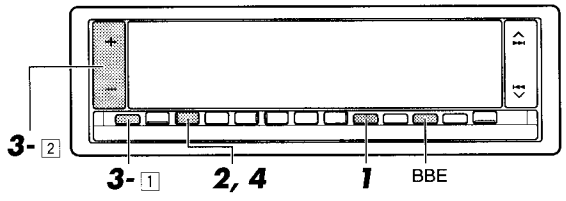
Indication	For:	Preset values		
		Bass	Treble	BBE
SCM OFF	(Flat sound)	00	00	On
SCM BEAT	Rock or disco music	+02	00	On
SCM SOFT	Quiet background music	+01	–03	Off
SCM POP	Light music	+04	+01	Off

Notes:

- *You can adjust the preset sound control mode to your preference, and store in memory. If you want to adjust and store your original sound control mode, see "Storing your own sound adjustments" on page 19.*
- *To adjust only the bass/treble reinforcement levels and BBE to your preference, see "Adjusting the sound" on page 16 and "Turning on/off the BBE function" on page 17.*

Storing your own sound adjustments

You can adjust the sound control modes (BEAT, SOFT, POP: see page 18) to your preference and store your own adjustments in memory.



1

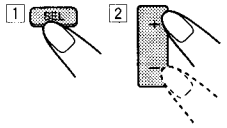
Light "MODE" on the lower part of the display.
The number buttons can work as different function buttons.

REMEMBER you must finish the following steps while "MODE" is still on the display. Otherwise, the setting will be canceled.

2

Select the sound control mode (SCM) you want.
For details, see page 18.

3



To adjust the bass or treble level
1 Select "BASS" or "TREBLE."
2 Adjust the bass or treble level.

To turn on or off the BBE function
See page 17.

4

Press and hold SOUND.
Your adjustment made for the selected sound control mode is stored in memory.

5

Repeat the same procedure to adjust other items.

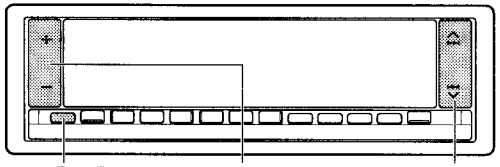
To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 18.

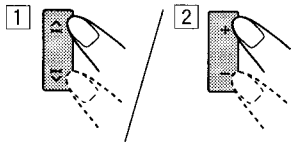
OTHER MAIN FUNCTIONS

ENGLISH

Setting the clock

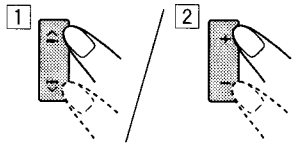


1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

2 

Set the hour.

1 Select "CLOCK HOUR" if not shown on the display.
2 Adjust the hour.

3 

Set the minute.

1 Select "CLOCK MINUTE."
2 Adjust the minute.

4 Finish the setting.

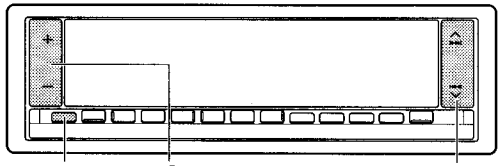
To check the current clock time while the unit is turned off, press + or –.
The power turns on, the clock time is shown for 5 seconds, then the power turns off.

Controlling the volume automatically (Audio Cruise)

ENGLISH

You can select the proper cruise mode for your car.
This unit change the volume level automatically (at 3 possible levels) based on the driving speed of your car by detecting the alternator's generating frequency (Audio Cruise).
If you want to use this mode, follow the procedures below. When shipped from the factory, this mode is set to "CRUISE OFF."

- CRUISE 1: Select this if your car is relatively quiet.
- CRUISE 2: Select this if your car is relatively loud.
  The volume increase rate is twice as much as that of the CRUISE 1 setting.
- CRUISE OFF: Cancels Audio Cruise.



1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

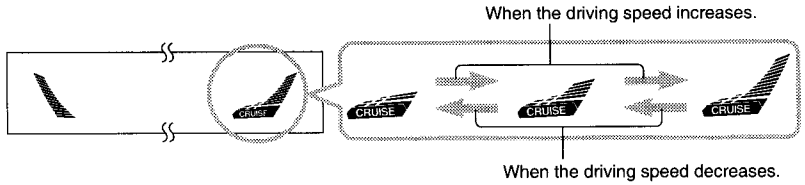
2 Select "CRUISE MODE."

3 Select desired setting.
Each time you press the button, the Audio Cruise mode changes as follows:

→CRUISE 1←→CRUISE 2←→CRUISE OFF←

4 Finish the setting.

When this function is turned on (the CRUISE indicator lights up on the display), the proper volume level is automatically selected among the 3 possible levels according to the driving speed, and the selected level is shown on the display.



To adjust the volume increase rate

If you find Audio Cruise increases (or decreases) the volume either too much or too little as the driving speed changes, you can adjust the increase rate by changing the boost level. To change it, follow the procedure below.

1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press ∧ ▶▶| or |◀◀ ∨ repeatedly until "CRUISE MODE" appears on the display.
3 Press + or – to select either "CRUISE 1" or "CRUISE 2."
4 Press ∧ ▶▶| (or |◀◀ ∨) to select "BOOST."
The current boost level also appears on the display.
5 Press + or – to select the desired boost level (among 01 to 15).
6 Press SEL again to finish the setting.

If Audio Cruise does not function correctly

You may need to store the idling speed into memory to make Audio Cruise function correctly.

NOTICE that a number of factors, such as electric power steering, wipers, power windows, air conditioner, etc. do generate noises and, as a result, may cause Audio Cruise not to function correctly. If this is the main cause of malfunction, connect the memory backup lead (yellow lead) directly to the car battery to prevent these noises from affecting Audio Cruise.

1 Start the engine and let it warm up.
2 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
3 Press ∧ ▶▶| or |◀◀ ∨ repeatedly until "CRUISE MODE" appears on the display.
4 Press + or – to select either "CRUISE 1" or "CRUISE 2."
5 Press ∧ ▶▶| (or |◀◀ ∨) to select "+OR– RPM SET."
6 Press + or – to select the desired idling speed.
7 Press SEL again to finish the setting.

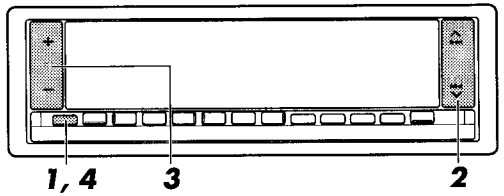
When the setting is complete, the unit automatically checks to see if Audio Cruise functions correctly with this new idling setting. If it does not function correctly, Audio Cruise is canceled automatically and the idling setting becomes invalid.

• *If this happens, see the NOTICE above.*

Changing the general settings (PSM)

You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.

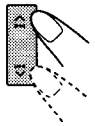
Basic Procedure



1

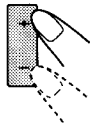
Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.

2



Select the PSM item you want to adjust. (See page 24.)

3



Adjust the PSM item selected above.

4

Finish the setting.

1 2 Select.		3 Set.		Factory-preset settings	See page
CLOCK HOUR	Hour adjustment	Back	Advance	1:00	20
CLOCK MINUTE	Minute adjustment	Back	Advance		
CLOCK DISP	Clock display	CLK DISP OFF	CLK DISP ON	CLK DISP ON	25
LEVEL METER	Level display	6 types (See page 25.)		NORMAL	25
DIMMER MODE	Dimmer mode	DIMMER AUTO ↔ DIMMER OFF ↳ DIMMER ON ↵		DIMMER AUTO	25
CRUISE MODE	Audio cruise	CRUISE 1 ↔ CRUISE 2 ↳ CRUISE OFF ↵		CRUISE OFF	21
+OR– RPM SET*	Idling speed	—		800 rpm	22
BOOST*	Boost	BOOST 01 –15		BOOST 05	22
BEEP SWITCH	Key-touch tone	BEEP OFF	BEEP ON	BEEP ON	25
P. AMP SWITCH	Power amplifier switch	P. AMP OFF	P. AMP ON	P. AMP ON	26
CONTRAST	Display contrast	CONTRAST 01 –10		CONTRAST 05	26
SCROLL MODE	Scroll mode	SCROLL ONCE ↔ SCROLL AUTO ↳ SCROLL OFF ↵		SCROLL ONCE	26
WOOFER FREQ	Subwoofer cutoff frequency	FREQ LOW ↔ FREQ MID ↳ FREQ HIGH ↵		FREQ MID	26
AREA CHANGE	Channel interval	AREA US	AREA EU	AREA US	26

* *When you select "CRUISE 1" or "CRUISE 2" for Audio Cruise Mode, you can adjust these items.*

4 Press SEL to finish the setting.

To select the clock display

You can select either the clock or the source name to be shown on the lower part of the display. When shipped from the factory, the clock is selected.

- CLK DISP ON: Clock
- CLK DISP OFF: Source name (or station band)

To check the other information during play

Press DISP (Display). Each time you press the button, the other information (either the clock or the source name) will be shown on the lower part of the display for a while.

To select the level meter

You can select the level meter display according to your preference. When shipped from the factory, "NORMAL" is selected.

- NORMAL: Normal audio level meter
- HIGHWAY: Level meter illuminates as if you are driving on a highway.
- SIDE: Level meter illuminates horizontally.
- RACE: Level meter illuminates as if cars are racing.
- LEVEL OFF: Level meter stays lit and does not change its illumination.
- ALL OFF: Level meter turns off.

To select the dimmer mode

When you turn on the car head lights, the display automatically dims (Auto Dimmer). When shipped from the factory, Auto Dimmer mode is activated.

- DIMMER AUTO: Activates Auto Dimmer.
- DIMMER OFF: Cancels Auto Dimmer.
- DIMMER ON: Always dims the display.

Note on Auto Dimmer:

Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.
In this case, set the dimmer mode to "DIMMER ON" or "DIMMER OFF."

To turn on/off the key-touch tone

You can deactivate the key-touch tone if you do not want to make it beep when you press a button. When shipped from the factory, the key-touch tone is activated.

- BEEP ON: Activates the key-touch tone.
- BEEP OFF: Deactivates the key-touch tone.

To turn on/off the power amplifier switch

You can switch off the built-in amplifier and send the audio signals only to the external amplifier(s) to get clear sounds and to prevent internal heat buildup inside this unit. When shipped from the factory, the power amplifier switch is turned on so that the built-in amplifier works.

- P. AMP ON: Select this mode when not using external amplifier(s).
- P. AMP OFF: Select this mode when using external amplifier(s).

To adjust the display contrast level

You can adjust the display contrast level among 01 (dark) to 10 (bright). When shipped from the factory, the display contrast level is set at level 05.

To select the scroll mode

You can select the scroll mode for the disc information if it consists of more than 12 characters. When shipped from the factory, Auto Scroll mode is set to "SCROLL ONCE."

- SCROLL ONCE: Scrolls only once.
- SCROLL AUTO: Repeats the scroll (5-second intervals in between).
- SCROLL OFF: Cancels Auto Scroll.

Note:

Even if the scroll mode is set to "SCROLL OFF," you can scroll the display by pressing DISP for more than 1 second.

To select the subwoofer cutoff frequency

When a subwoofer is connected to this unit, select an appropriate cutoff frequency level for your subwoofer. When shipped from the factory, the subwoofer cutoff frequency is set to "MID."

- FREQ LOW: Frequencies higher than 50 Hz are cut off to the subwoofer.
- FREQ MID: Frequencies higher than 80 Hz are cut off to the subwoofer.
- FREQ HIGH: Frequencies higher than 120 Hz are cut off to the subwoofer.

To change the AM/FM channel intervals

When this unit is shipped from the factory, the channel intervals are set to 10 kHz for AM and 200 kHz for FM (AREA US settings).

You will have to change the channel intervals when using this unit in an area other than North America and South America.

- AREA EU: Select this when using this unit in an area other than North and South America. (9 kHz for AM and 50 kHz (for manual tuning) / 100 kHz (for searching) for FM)
- AREA US: Select this when using this unit in North or South America. (10 kHz for AM and 200 kHz for FM)

Note:

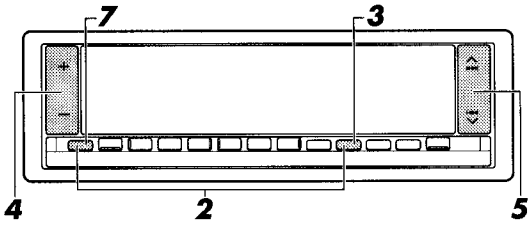
If the channel intervals settings are changed, the names assigned to the stations will be erased from memory. To reassign the names, see "Assigning names to the sources" on pages 27 – 29.

Assigning names to the sources

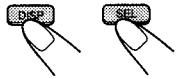
You can assign names to station frequencies, CDs and the external component connected to the LINE IN plugs. After assigning a name, it will appear on the display when you select the source.

Sources	Maximum number of the characters
Station frequencies	up to 12 characters (up to 30 station frequencies including both FM and AM)
CDs *	up to 32 characters (up to 40 discs)
External component	up to 12 characters

** You cannot assign a name to a CD Text.*

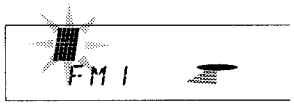


1 Select a source you want to assign a name to.

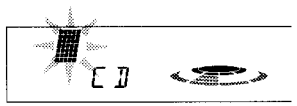
2 

Press and hold SEL (Select) for more than 2 seconds while pressing DISP.

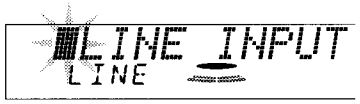
When you select a station frequency as the source:



When you select the CD as the source:



When you select the external component connected to LINE IN as the source:



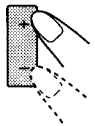
Continued to the next page

3

Select the character set you want while "▮" is flashing.
Each time you press the button, the character set changes as follows:

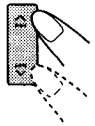
→ **Capital letter** → **Small letter** →
← **Numbers and symbols** ←

4



Select a character.
About the available characters, see page 29.

5



Move the cursor to the next (or previous) character position.

6

Repeat steps 3 to 5 until you finish inputting the name.

7

Press the button while the last selected character is flashing.
The input name is stored in memory.

To erase the input characters

Insert spaces using the same procedure described above.

Available characters

Capital letters

A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	space			

Small letters

a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
u	v	w	x	y	z	space			

Numbers and symbols

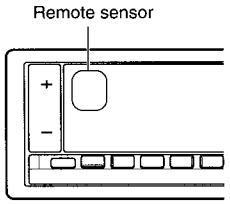
0	1	2	3	4	5	6	7	8	9
!	”	#	$	%	&	’	(	)	*
+	,	–	.	/	:	;	<	=	>
?	@	_	`	space					

Notes:

- *When you assign a name to the 41st disc, "NAME FULL" appears on the display. (In this case, delete unwanted names before assignment.)*
- *When the CD changer CH-X1200 connected, you can assign names to CDs in CH-X1200. These names can also be shown on the display if you insert the CDs in this unit.*

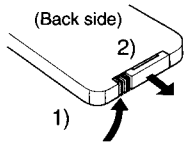
REMOTE OPERATIONS

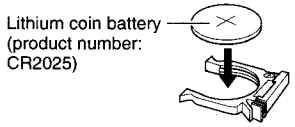
Before using the remote controller:
- Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

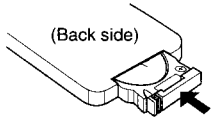


Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.







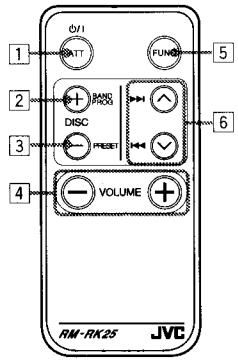
1. **Remove the battery case.**
   1) Push in the direction indicated by the arrow with your right hand thumbnail.
   2) Remove the battery case.

2. **Replace the battery.**
   Put the battery in the case with the + side facing upwards.

3. **Return the battery case.**
   Insert again the battery case pushing until you hear a clicking sound.

WARNING:
- *Store the batteries in a place which children cannot reach.*
  If a child accidentally swallows the battery, immediately consult a doctor.
- *Do not recharge, short, disassemble or heat the batteries or dispose of in a fire.*
  Doing any of these things may cause the batteries to give off heat, crack or start a fire.
- *Do not leave the batteries with other metallic materials.*
  Doing this may cause the batteries to give off heat, crack or start a fire.
- *When throwing away or saving the batteries, wrap in tape and insulate; otherwise, it may cause the batteries to give off heat, crack or start a fire.*
- *Do not poke the batteries with tweezers or similar tools.*
  Doing this may cause the batteries to give off heat, crack or start a fire.

Using the remote controller



1 • Turns on the unit if pressed briefly.
• Turns off the unit if pressed and held untill "SEE YOU" appears on the display.
• Drops the volume level for a moment if pressed briefly. Press again to resume the volume.

2 • Functions as the BAND button while listening to the radio. Each time you press the button, the band changes.
• Functions as the DISC + button while listening to the CD changer. Each time you press the button, the disc number increases, and the selected disc starts playing.
• Does not function as the PROG button.

3 • Functions as the PRESET button while listening to the radio. Each time you press the button, the preset station number increases, and the selected station is tuned in.
• Functions as the DISC – button while listening to the CD changer. Each time you press the button, the disc number decreases, and the selected disc starts playing.

4 Functions the same as the + / – button on the main unit.
Note: *This button does not function for the preferred setting mode adjustment.*

5 Selects the source.
Each time you press FUNC (Function), the source changes.

6 • Searches stations while listening to the radio.
• Fast-forwards or reverses the track if pressed and held while listening to a CD.
• Skips to the beginning of the next tracks or goes back to the beginning of the current (or previous tracks) if pressed briefly while listening to a CD.

CD CHANGER OPERATIONS

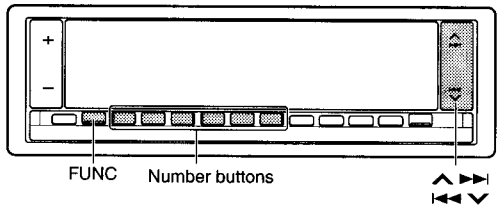
We recommend that you use one of the CH-X series (ex: CH-X1200) with your unit.
If you have another CD automatic changer, consult your JVC car audio dealer for connections.

- *For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.*

Before operating your CD automatic changer:

- **Refer also to the Instructions supplied with your CD changer.**
- **If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.**
- **If "RESET 1 - RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection, connect the connecting cord(s) firmly if necessary, then press the reset button of the CD changer.**

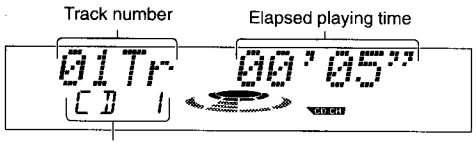
Playing CDs



Select the CD automatic changer.

Each time you press the button, the source changes as described on page 5.

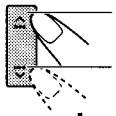
Playback starts from the first track of the first disc.
All tracks of all discs are played back.



Note:

When a CD is in the CD changer, selecting CD changer as the source by pressing FUNC (Function) starts CD play.

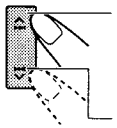
To fast-forward or reverse the track



Press and hold ∧ ▶▶|, while playing a CD, to fast-forward the track.

Press and hold |◀◀ ∨, while playing a CD, to reverse the track.

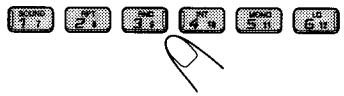
To go to the next tracks or the previous tracks



Press ∧ ▶▶| briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next tracks is located and played back.

Press |◀◀ ∨ briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

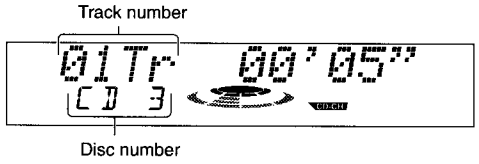
To go to a particular disc directly



Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).

- To select a disc number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

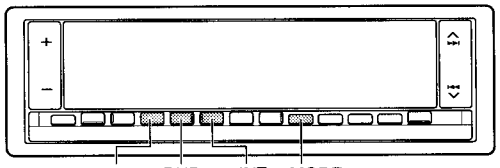
Ex. When disc number 3 is selected



To show the CD Text information

This is possible only when connecting a JVC CD automatic changer equipped with CD Text reading capability.
See "Playing a CD Text" on page 12.

Selecting CD playback modes



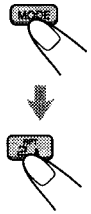
To play back tracks at random (Random Play)

1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press RND (Random), while "MODE" is still on the display, so that the RND indicator lights up on the display.
Each time you press the button, CD random play mode changes as follows:

RANDOM1 → RANDOM2 → Canceled →

Mode	RND Indicator	Plays at random
RANDOM1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RANDOM2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)



1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press RPT (Repeat), while "MODE" is still on the display, so that the RPT indicator lights up on the display.
Each time you press the button, CD repeat play mode changes as follows:

REPEAT1 → REPEAT2 → Canceled →

Mode	RPT Indicator	Plays repeatedly
REPEAT1	Lights	The current track (or specified track).
REPEAT2	Flashes	All tracks of the current disc (or specified disc).

To play back only intros (Intro Scan)

1 Press MODE while playing a CD.
"MODE" appears on the lower part of the display, and the number buttons can work as different function buttons.
2 Press INT (Intro), while "MODE" is still on the display.
Each time you press the button, CD intro scan mode changes as follows:

INTRO 1 → INTRO 2 → Canceled →

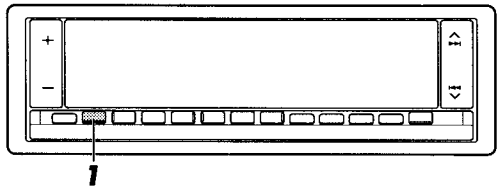
Mode	Indication	Plays the beginnings (15 seconds)
INTRO 1	Track number flashes	Of all tracks on all inserted discs.
INTRO 2	Disc number flashes (when it is shown on the display)	Of the first track on each inserted disc.

EXTERNAL COMPONENT OPERATIONS

ENGLISH

Playing an external component

When connecting an external component to the LINE IN plugs on the rear, you can select the component as the sound source.



1

Select the external component.
Each time you press the button, the source changes as described on page 5.

2

Operate the external component.

Notes:
- *For the external component connection, see the Installation/Connection Manual (separate volume).*
- *See also "Assigning names to the sources" on page 27 if you want to match the name shown on the display with the name of the connected component.*

Using a subwoofer

By connecting a subwoofer to the SUBWOOFER OUT plugs on the rear, you can enjoy enhanced bass sounds and a more realistic theater atmosphere in your car.
- Refer also to the instructions supplied with your subwoofer.

To set the subwoofer cutoff frequency, see "To select the subwoofer cutoff frequency" on page 26.

To adjust the subwoofer output volume, see "Adjusting the sound" on page 16.

MAINTENANCE

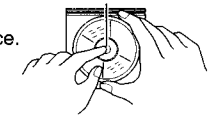
ENGLISH

Handling CDs

This unit has been designed only to reproduce the CDs bearing the COMPACT disc DIGITAL AUDIO and COMPACT disc DIGITAL AUDIO TEXT marks. Other discs cannot be played back.

How to handle CDs

Center holder



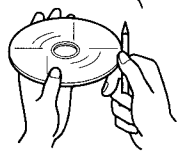
When removing a CD from its case, press down the center holder of the case and lift the CD out, holding it by the edges.
- Always hold the CD by the edges. Do not touch its recording surface.

When storing a CD into its case, gently insert the CD around the center holder (with the printed surface facing up).
- Make sure to store CDs into the cases after use.

To keep CDs clean

A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

To play new CDs



New CDs may have some rough spots around the inner and outer edges. If such a CD is used, this unit may reject the CD.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:
- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the CD and leave the unit turned on for a few hours until the moisture evaporates.

CAUTIONS:
- *Do not insert 8cm (3 3/16") CDs (single CDs) into the loading slot. (Such CDs cannot be ejected.)*
- *Do not insert any CD of unusual shape — like a heart or flower; otherwise, it will cause a malfunction.*
- *Do not expose CDs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
- *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean CDs.*

About mistracking:
Mistracking may result from driving on extremely rough roads. This does not damage the unit and the CD, but will be annoying.
We recommend that you stop CD play while driving on such rough roads.

TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service centre.

Symptoms	Causes	Remedies
• CD cannot be played back.	CD is inserted upside down.	Insert the CD correctly.
• CD sound is sometimes interrupted.	You are driving on rough roads.	Stop CD play while driving on rough roads.
	CD is scratched.	Change the CD.
	Connections are incorrect.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• "NO DISC" appears on the display.	No CD is in the magazine.	Insert CD.
• "RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1-RESET 7" appears on the display.	———	Press the reset button of the CD changer.
• "EJECT ERROR" appears on the display and CD cannot be ejected.	The CD player may function incorrectly.	Press and hold – of the + / – button for more than 5 seconds.
• No message appears on the display but CD cannot be ejected.		While holding ⏶ ⏭, press the reset button. Release the reset button, then release ⏶ ⏭. (Be careful not to drop the CD when ejecting.)
• This unit does not work at all. • The CD changer does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the front panel. (See page 3)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
Front: 40 watts per channel
Rear: 40 watts per channel
Continuous Power Output (RMS):
Front: 16 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.
Rear: 16 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.
Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range:
Bass: ±10 dB at 100 Hz
Treble: ±10 dB at 10 kHz
Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-In Level/Impedance:
1.5 V/20 kΩ load
Line-Out Level/Impedance:
4.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

TUNER SECTION

Frequency Range:
FM: 87.5 to 107.9 MHz
(with channel interval set to 200 kHz)
87.5 to 108.0 MHz
(with channel interval set to 50 kHz)
AM: 530 to 1,710 kHz
(with channel interval set to 10 kHz)
531 to 1,602 kHz
(with channel interval set to 9 kHz)

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB

[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 to 20,000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)
Grounding System: Negative ground
Allowable Operating Temperature:
0°C to +40°C (32°F to 104°F)
Dimensions (W x H x D):
Installation Size:
182 x 52 x 160 mm
(7-3/16" x 2-1/16" x 6-5/16")
Panel Size: 188 x 58 x 8 mm
(7-7/16" x 2-5/16" x 3/8")
Mass: 1.7 kg (3.8 lbs) (excluding accessories)

Design and specifications subject to change without notice.

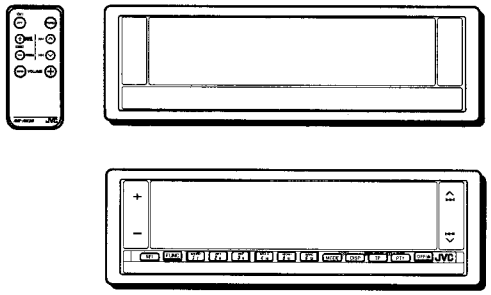
If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

JVC

ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS

CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

KD-LX3R



For installation and connections, refer to the separate manual.
Angaben zu Einbau und Verkabelung entnehmen Sie bitte der gesonderten Anleitung.
Pour l'installation et les raccordements, se référer au manuel séparé.
Zie de afzonderlijke handleiding voor details aangaande het installeren en verbinden van het toestel.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

For Customer Use:
Enter below the password you have entered for your security lock.
Retain this password for futuer reference.
PASSWORD: ☐☐☐☐

LVT0239-001A
[E]

ENGLISH

RDS OPERATIONS

What you can do with RDS EON

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.
Another advantage of RDS function is called "EON (Enhanced Other Networks)." The EON indicator lights up while receiving an FM station with the EON data. By using the EON data sent from a station, you can tune into a different station of a different network broadcasting your favorite program or traffic announcement while listening to another program or to another source such as CD.

By receiving the RDS signals, this unit can do the following:
- Tracing the same program automatically (Network-tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favorite program
- PTY (Program Type) search
- TA (Traffic Announcement) search
- And some other functions

Tracing the same program automatically (Network-Tracking Reception)

When driving in an area where FM reception is not good, the tuner built in this unit automatically tunes in another RDS station broadcasting the same program with stronger signals. So, you can continue to listen to the same program in its finest reception, no matter where you drive. (See the illustration on the next page.)
Two types of the RDS signals are used to make Network-Tracking Reception work correctly — PI (Program Identification) and AF (Alternative Frequency) data.
Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.

To use Network-Tracking Reception, press and hold TP/RDS (Traffic Program/Radio Data System) for more than 1 second. Each time you press and hold the button, Network-Tracking Reception modes change as follows:

→ **Mode 1** → **Mode 2** → **Mode 3** →

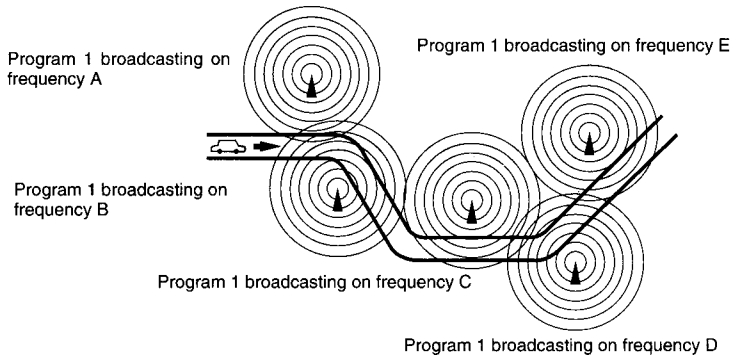
Mode 1 (AF:on / REG:off)
Network-Tracking is activated with Regionalization set to "off."
Switches to another station within the same network when the received signals from the current station become weak.

Note:
In this mode, the program may differ from the one currently received.

Mode 2 (AF:on / REG:on)
Network-Tracking is activated with Regionalization set to "on."
Switches to another station, within the same network, broadcasting the same program when the received signals from the current station become weak.

Mode 3 (AF:off / REG:off)
Network-Tracking is deactivated.

The same program can be received on different frequencies.


Program 1 broadcasting on frequency A
Program 1 broadcasting on frequency E
Program 1 broadcasting on frequency B
Program 1 broadcasting on frequency C
Program 1 broadcasting on frequency D

Using Standby Reception

Standby Reception allows the unit to switch temporarily to your favorite program (PTY: Program TYpe) and Traffic Announcement (TA) from the current source (another FM RDS station, CD, and other connected components).

Note:
Standby Reception will not work if you are listening to an AM station.

TA Standby Reception

Press TP/RDS briefly to activate TA Standby Reception.
The TP indicator either lights up or flashes on the display. (See below)

- **If you press the button while listening to an FM RDS station supporting TA signal,** the TP indicator lights up. This receiver now stands by for the TA signal reception.
- **If you press the button while listening to an FM RDS station NOT supporting TA signal,** the TP indicator flashes.
  In this case, this receiver cannot stand by for TA signal reception.
  To use TA Standby Reception, tune into a station supporting TA signal by pressing ∧ ▶▶| or |◀◀ ∨. "SEARCH" (or "LOCAL SEARCH": see page 6) appears on the display, and the unit searches for a station supporting TA signal. When a station supporting the signal is tuned in, the TP indicator is lit. NOW this receiver stands by for the TA signal reception.
- **If you press the button while listening to any other source than AM;**
  This unit starts searching for an FM station supporting TA signal in the background — without affecting your listening to the source currently selected. (During this background search, the TP indicator flashes.)
  – The TP indicator stops flashing and remains lit when an FM station supporting TA signal is tuned in the background. This receiver now stands by for the TA signal reception.
  – The TP indicator keeps flashing when an FM station supporting TA signal is NOT tuned in the background. In this case, this receiver cannot stand by for TA signal reception.

How TA Standby Reception works:

If a Traffic Announcement starts broadcasting while TA Standby Reception is activated (the TP indicator should be lit on the display), "TRAFFIC" appears and the unit tunes into the station broadcasting Traffic Announcement. The volume increases to the preset TA volume level (see page 17) and the Traffic Announcement can be heard.

To deactivate TA Standby Reception, press TP/RDS briefly again.
Each time you press the button, TA Standby Reception turns on and off.

PTY Standby Reception

Press PTY to activate PTY Standby Reception.
The PTY indicator either lights up or flashes on the display. (See below)

- **If you press the button while listening to an FM RDS station supporting PTY signals,** the PTY indicator lights up, and the PTY code name (see "To select your favorite program for PTY Standby Reception" below) flashes for 5 seconds. This receiver now stands by for the selected PTY signal reception.
- **If you press the button while listening to an FM RDS station NOT supporting PTY signals,** the PTY indicator flashes, and the PTY code name also flashes for 5 seconds.
  In this case, this receiver cannot stand by for PTY signal reception.
  To use PTY Standby Reception, tune into a station supporting PTY signals by pressing ∧ ▶▶| or |◀◀ ∨. "SEARCH" (or "LOCAL SEARCH": see page 6) appears on the display, and the unit searches for a station supporting PTY signals. When a station supporting the signal is tuned in, the PTY indicator is lit. NOW this receiver stands by for the selected PTY signal reception.
- **If you press the button while listening to any other source than AM;**
  This unit starts searching for an FM station supporting PTY signal in the background — without affecting your listening to the source currently selected. (During this background search, the PTY indicator flashes.)
  – The PTY indicator stops flashing and remains lit when an FM station supporting PTY signal is tuned in the background. This receiver now stands by for the PTY signal reception.
  – The PTY indicator keeps flashing when an FM station supporting PTY signal is NOT tuned in the background. In this case, this receiver cannot stand by for PTY signal reception.

How PTY Standby Reception works:

If a program of the selected PTY starts broadcasting while the PTY Standby Reception is activated, the selected PTY name appears and the unit tunes into the station broadcasting the program. The program of the selected PTY can be heard.

To deactivate PTY Standby Reception, press PTY again.
Each time you press the button, PTY Standby Reception turns on and off.

To select your favorite program for PTY Standby Reception

You can select your favorite program for PTY Standby Reception to store in memory.
When shipped from the factory, "News" is stored for PTY Standby Reception.
• See also "Changing the general settings (PSM)" on page 31.

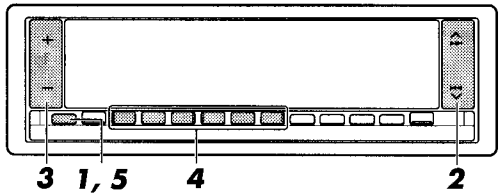
1 Press and hold SEL (Select) for more than 2 seconds so one of the PSM items appears on the display.
2 Press ∧ ▶▶| or |◀◀ ∨ to select "PTY STANDBY," if not shown on the display.
3 Select one of twenty-nine PTY codes. (See page 18.)
  The selected PTY code name appears on the display and is stored into memory.
4 *Press SEL again to finish the setting.*

Searching your favorite programme (PTY Search)

You can search one of your 6 favorite program types stored in memory.
When shipped from the factory, the following 6 program types have been stored in the number buttons (1 to 6).

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

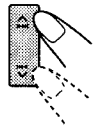
To store your favorite program types



1

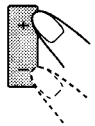
Press and hold SEL (Select) for more than 2 seconds so one of the PSM items appears on the display. (PSM: see page 31.)

2



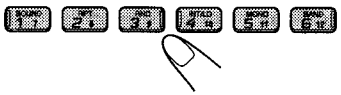
Select "PTY SEARCH" if not shown on the display.

3



Select one of twenty-nine PTY codes. (See page 18.)
Selected code name appears on the display.
• If the code already stored in memory is selected, it will flash on the display.

4



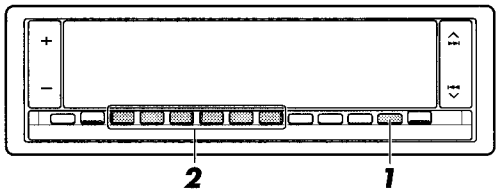
Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.
PTY preset number appears, and selected code name and "MEMORY" alternate on the display.

To be continued on the next page

ENGLISH

5 Finish the setting.

To search your favorite program type



1 Press and hold PTY (Program TYpe) for more than 1 second while listening to an FM station.

The last selected PTY code and preset number appear.

2 Select one of PTY codes stored in preset number buttons (1 to 6).

PTY search for your favorite program starts after 5 seconds.

- If there is a station broadcasting a program of the same PTY code you selected, that station is tuned in.
- If there is no station broadcasting a program of the same PTY code you selected, the station will not change.

Note:
In some areas, the PTY search will not work correctly.

ENGLISH

Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

Usually when you press the number button, the preset station is tuned in.
However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit starts searching another station broadcasting the same program as the original preset station is broadcasting, then if any station broadcasting the same program is found, the station will be tuned in.

Changing the display mode while listening to an FM RDS station

You can change the initial indication on the display to either station name (PS) or to station frequency, while listening to an FM RDS station.

• See also "Changing the general settings (PSM)" on page 31.

1 Press and hold SEL (Select) for more than 2 seconds so one of the PSM items appears on the display.
2 Press ∧ ▶▶| or |◀◀ ∨ until "TUNER DISP (Display)" appears on the display.
3 Press + / – to select the desired indication (either station name or station frequency).

PS NAME ⟷ FREQUENCY

4 Press SEL again to finish the setting.

Note:
By pressing DISP, you can also change the display while listening to an FM RDS station.
Each time you press the button, the following information appears on upper part of the display:

→ PS (Station name) → Station Frequency → PTY (Program type) →

Then, the display goes back to the original indication in several seconds.

Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic program is received, the volume level automatically changes to the preset level.

• See also "Changing the general settings (PSM)" on page 31.

1 Press and hold SEL (Select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press ∧ ▶▶| or |◀◀ ∨ until "TA VOLUME" (with its current setting) appears on the display.
3 Press + / – to set to the desired volume.
4 Press SEL again to finish the setting.

ENGLISH

Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.
If you do not want to use automatic clock adjustment, follow the procedure below.

• See also "Changing the general settings (PSM)" on page 31.

1 Press and hold SEL (Select) for more than 2 seconds so one of the PSM items appears on the display.
2 Press ∧ ▶▶| or |◀◀ ∨ until "AUTO ADJUST" appears on the display.
3 Press – to select "ADJUST OFF."
4 Press SEL again to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "ADJUST ON" in step 3 by pressing +.

Note:

It takes about 2 minutes to adjust the time using the CT data. So, you must tune to the station for more than 2 minutes continuously; otherwise, the clock time will not be adjusted.

PTY codes

NEWS:	News
AFFAIRS:	Topical programs expanding on current news or affairs
INFO:	Programs which impart advice on a wide variety of topics
SPORT:	Sport events
EDUCATE:	Educational programs
DRAMA:	Radio plays
CULTURE:	Programs on national or regional culture
SCIENCE:	Programs on natural science and technology
VARIED:	Other programs like comedies or ceremonies
POP M:	Pop music
ROCK M:	Rock music
EASY M:	Easy-listening music
LIGHT M:	Light music
CLASSICS:	Classical music
OTHER M:	Other music
WEATHER:	Weather information
FINANCE:	Reports on commerce, trading, the stock market, etc.
CHILDREN:	Entertainment programs for children
SOCIAL:	Programs on social activities
RELIGION:	Programs dealing with any aspect of belief or faith, or the nature of existence or ethics
PHONE IN:	Programs where people can express their views either by phone or in a public forum
TRAVEL:	Programs about travel destinations, package tours, and travel ideas and opportunities
LEISURE:	Programs concerned with recreational activities such as gardening, cooking, fishing, etc.
JAZZ:	Jazz music
COUNTRY:	Country music
NATION M:	Current popular music from another nation or region, in that country's language
OLDIES:	Classic pop music
FOLK M:	Folk music
DOCUMENT:	Programs dealing with factual matters, presented in an investigative style

SPECIFICATIONS

ENGLISH

AUDIO AMPLIFIER SECTION

Maximum Power Output:
Front: 40 watts per channel
Rear: 40 watts per channel
Continuous Power Output (RMS):
Front: 16 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.
Rear: 16 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8 % total harmonic distortion.
Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range:
Bass: ±10 dB at 100 Hz
Treble: ±10 dB at 10 kHz
Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-In Level/Impedance:
1.5 V/20 kΩ
Line-Out Level/Impedance:
4.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

TUNER SECTION

Frequency Range:
FM: 87.5 to 108.0 MHz
AM: (MW) 522 to 1,620 kHz
(LW) 144 to 279 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

[MW Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 μV

CD PLAYER SECTION

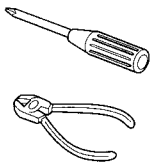
Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 to 20,000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)
Grounding System: Negative ground
Allowable Operating Temperature:
0°C to +40°C
Dimensions (W x H x D):
Installation Size:
182 x 52 x 160 mm
Panel Size: 188 x 58 x 8 mm
Mass: 1.7 kg (excluding accessories)

Design and specifications subject to change without notice.

JVC KD-LX3 KD-LX1



Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement

LVT0224-001B
[J]

Printed in Japan
0399MNMMDWOZK
EN, SP, FR

ENGLISH

- This unit is designed to operate on 12 volts DC, NEGATIVE ground electrical systems.

INSTALLATION (IN-DASH MOUNTING)

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

1 Remove the trim plate.

2 Remove the sleeve after disengaging the sleeve locks.

① Stand the unit.

Note: When you stand the unit, be careful not to damage the fuse on the rear.

② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.

③ Remove the sleeve.

Note: Be sure to keep the handles for future use after installing the unit.

3 Attach the trim plate.

4 Install the sleeve into the dashboard.

* After the sleeve is correctly installed into the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

6 Do the required electrical connections.

7 Slide the unit into the sleeve until it is locked by pressing the four corners of the trim plate.

Note: Do not press the panel (shaded in the illustration); otherwise the panel may become unable to open or close.

ESPAÑOL

- Esta unidad está diseñada para funcionar con 12 voltios de CC, con sistemas eléctricos de masa NEGATIVA.

INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

- La siguiente ilustración muestra una instalación típica. Sin embargo usted deberá efectuar los ajustes correspondientes a su automóvil. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

1 Retire la placa de guarnición.

2 Retire la manga después de desenganchar los retenes de la manga.

① Ponga la unidad vertical.

Nota: Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.

② Inserte las dos asas entre la unidad y la manga tal como en la ilustración y desenganche los retenes de la manga.

③ Retire la manga.

Nota: Después de instalar la unidad, asegúrese de guardar las asas para uso futuro.

3 Instale la placa de guarnición.

4 Instale la cubierta en el tablero de instrumentos.

* Después de que la manga esté correctamente instalada en el tablero de instrumentos, doble las lengüetas correspondientes para sostener la manga firmemente en su lugar, tal como se muestra.

5 Fije el perno de montaje en la parte trasera del cuerpo de la unidad y coloque el cojín de goma sobre el extremo del perno.

6 Realice las conexiones eléctricas requeridas.

7 Deslice la unidad dentro de la manga hasta que quede bloqueada al presionar contra las cuatro esquinas de la placa de guarnición.

Nota: No presione el panel (sombreado en la ilustración); de lo contrario, podría suceder que no se pueda realizar su apertura o cierre.

FRANÇAIS

- *Cet appareil est conçu pour fonctionner sur des sources de courant continu de 12 volts à masse NEGATIVE.*

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

- *L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.*

1 *Retirer la plaque d'assemblage.*

2 *Libérer les verrous du manchon et retirer le manchon.*

① *Poser l'appareil à la verticale.*

Remarque: *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur le fond.*

② *Insérer les 2 poignées entre l'appareil et le manchon comme indiqué pour désengagé les verrous de manchon.*

③ *Retirer le manchon.*

Remarque: *S'assurer de garder les poignées pour une utilisation ultérieur, après l'installation de l'appareil.*

3 *Fixez la plaque d'assemblage.*

4 *Installer le manchon dans le tableau de bord.*

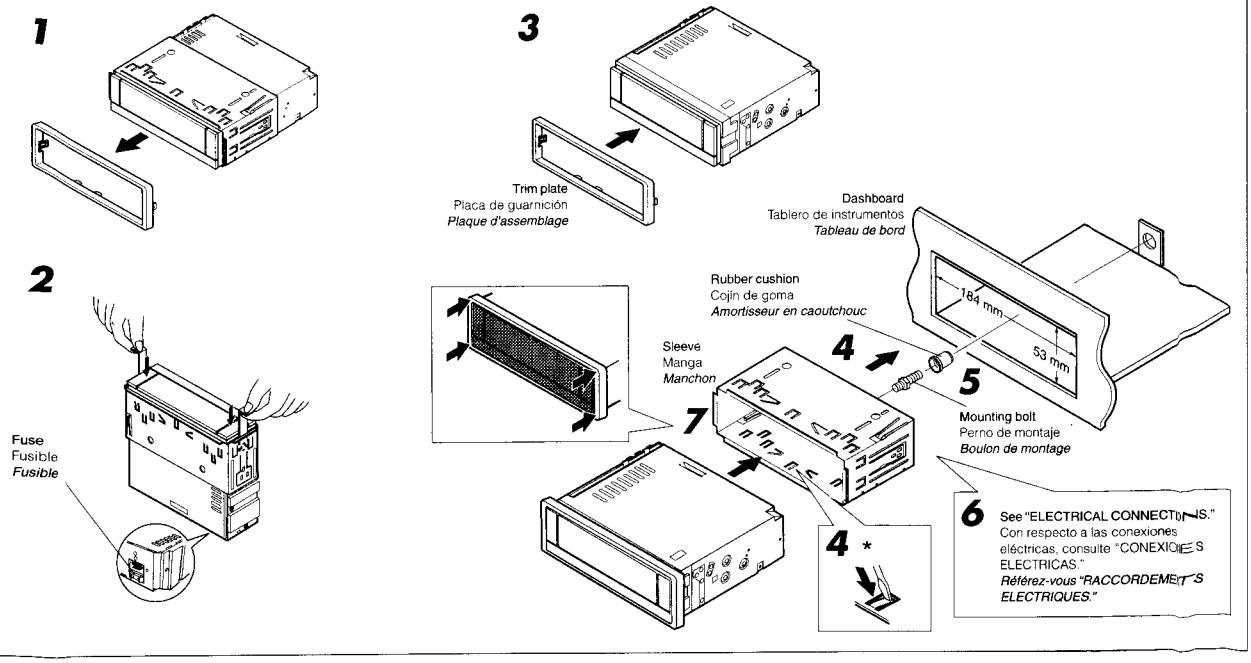
* *Après installation correcte du manchon dans le tableau de bord, plier les bonnes pattes pour maintenir fermement le manchon en place, comme montré.*

5 *Monter le boulon de montage sur l'arrière du corps de l'appareil puis passer l'amortisseur en caoutchouc sur l'extrémité du boulon.*

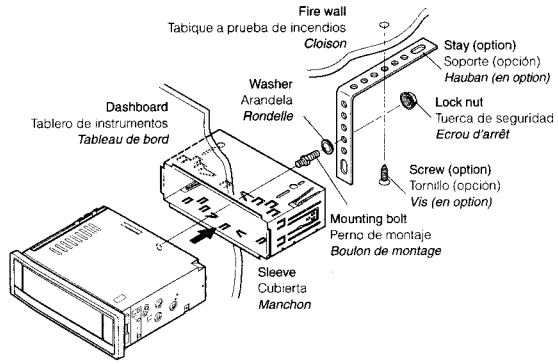
6 *Réalisez les connexions électriques.*

7 *Faites glisser l'appareil dans le manchon jusqu'à ce qu'il soit verrouillé en appuyant sur les quatre coins de la plaque d'assemblage.*

Remarque: *N'appuyez pas sur le panneau (ombré sur l'illustration); sinon le panneau risquerait de ne pas pouvoir s'ouvrir ou se fermer.*

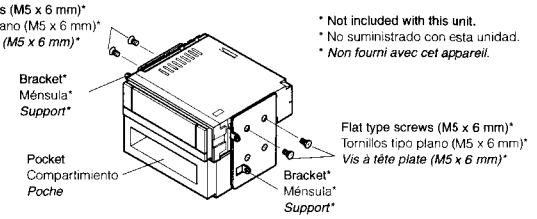


• When using the optional stay
• Cuando emplea un soporte opcional
• Lors de l'utilisation du hauban en option



• When installing the unit without using the sleeve
• Instalación de la unidad sin utilizar la cubierta
• Lors de l'installation de l'appareil sans utiliser de manchon

In a Toyota for example, first remove the car radio and install the unit in its place.
En un Toyota por ejemplo, primero extraiga la radio del automóvil y luego instale la unidad en su lugar.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.



Note: When installing the unit on the mounting bracket, make sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.
Nota: Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 6 mm de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.
Remarque: *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 6 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*

Removing the unit

- Before removing the unit, release the rear section.

1 Remove the trim plate.
2 Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

Extracción de la unidad

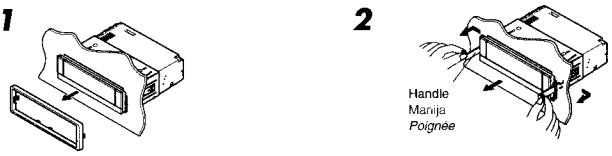
- Antes de extraer la unidad, libere la sección trasera.

1 Retire la placa de guarnición.
2 Inserte las 2 manijas entre las ranuras, como se muestra. Luego, separe gentilmente las manijas y extraiga la unidad. **(Asegúrese de conservar las manijas después de instalarlo.)**

Retrait de l'appareil

- *Avant de retirer l'appareil, libérer la section arrière.*

1 *Retirer la plaque d'assemblage.*
2 *Introduire les deux poignées dans les fentes, comme montré. Puis, tout en tirant doucement les poignées écartées, faire glisser l'appareil pour le sortir.* **(S'assurer de conserver les poignées après l'installation de l'appareil.)**



Parts list for installation and connection

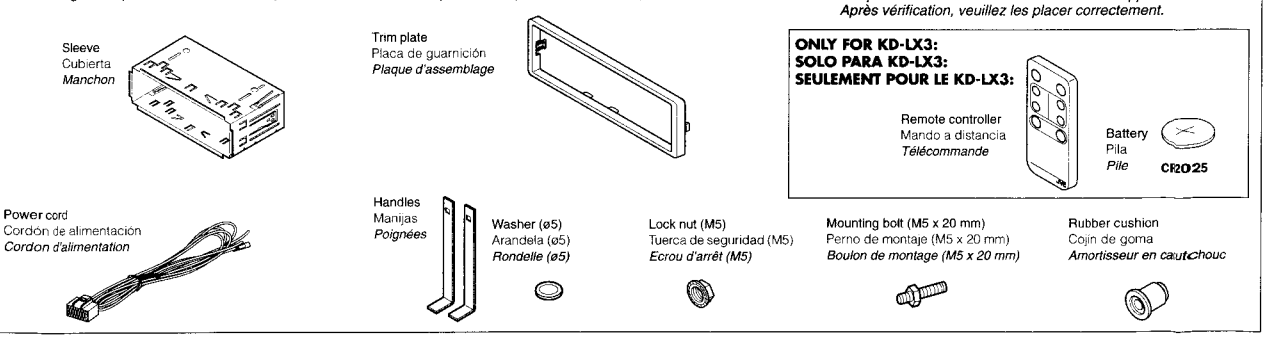
The following parts are provided with this unit.
After checking them, please set them correctly.

Lista de piezas para instalación y conexión

Con esta unidad se suministran las siguientes piezas.
Después de inspeccionarlas, colóquelas correctamente.

Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.



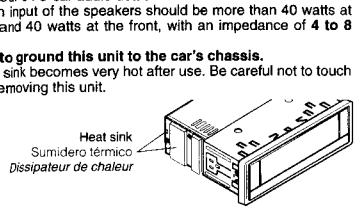
ENGLISH

ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:
This unit is designed to operate on **12 volts DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (See connection diagram.) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
- Maximum input of the speakers should be more than 40 watts at the rear and 40 watts at the front, with an impedance of **4 to 8 ohms.**
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ESPAÑOL

CONEXIONES ELECTRICAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad. Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

Nota:
Esta unidad está diseñada para funcionar con **12 voltios de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Si el ruido fuese un problema...
  Esta unidad tiene un filtro de ruido en el circuito de alimentación. Sin embargo, en algunos vehículos, pueden producirse chasquidos u otros ruidos indeseados. En tal caso conecte el **terminal de tierra posterior** (Ver diagrama de conexión.) del receptor al chasis del automóvil, utilizando cordones más gruesos y cortos tales como alambre de cobre trenzado o de grueso calibre. Si el ruido persiste, consulte a su concesionario de JVC de equipos de audio para automóvil.
- La entrada máxima de los altavoces traseros debe ser mayor de 40 vatios y la de los delanteros de 40 vatios, con una impedancia de **4 a 8 ohmios**.
- **Asegúrese de conectar esta unidad a tierra en el chasis del automóvil.**
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

FRANÇAIS

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

Remarque:
Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 volts à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Si le bruit est un problème...*
  Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne de masse arrière** *de l'appareil au châssis de la voiture (voir le schéma de raccordement) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des haut-parleurs doit être supérieure à 40 watts à l'arrière et à 40 watts l'avant, avec une impédance de* **4 à 8 ohms**.
- **S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.**
- *Le radiateur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

A Typical Connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.

1 Connect the colored leads of the power cord to the car battery, speakers and power antenna (if any) in the following sequence.
- ① Black: ground
- ② Yellow: to car battery (constant 12V)
- ③ Red: to an accessory terminal
- ④ Others: to speakers
- ⑤ Blue with white stripe: to power antenna (200mA max.)
- ⑥ Orange with white stripe: to car light control switch

2 Connect the antenna cord.

3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.

1 Conecte los conductores de color del cable de alimentación a la batería del automóvil, altavoces y antena motriz (si la hubiere) en la secuencia siguiente.
- ① Negro: a tierra
- ② Amarillo: a la batería del automóvil (12V constantes)
- ③ Rojo: a un terminal de accesorio
- ④ Otros: a los altavoces
- ⑤ Azul con rayas blancas: a la antena motriz (máx. 200mA)
- ⑥ Naranja con rayas blancas: al interruptor de control de las luces del automóvil

2 Conecte el cable de antena.

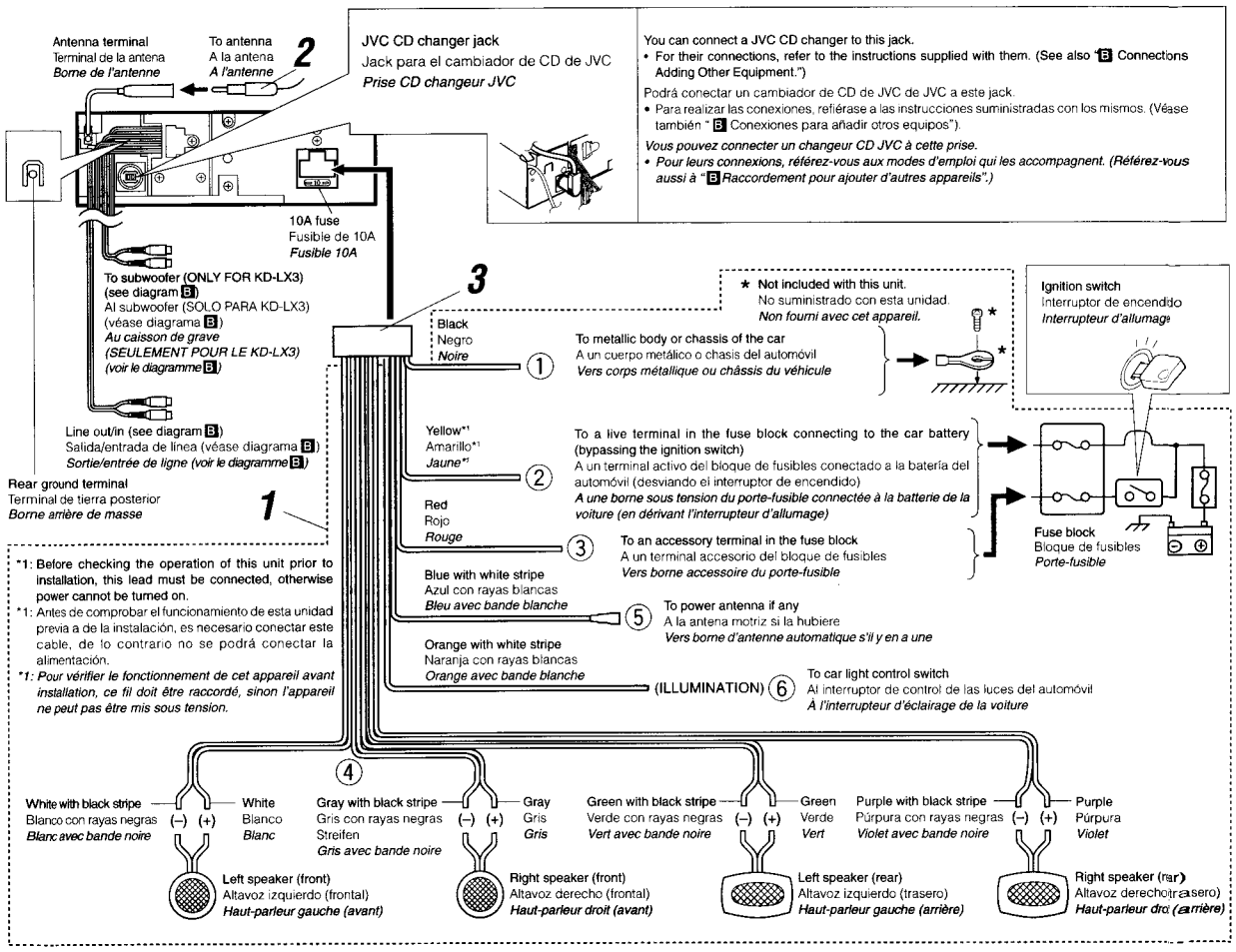
3 Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: *vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*

1 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*
- ① *Noir: à la masse*
- ② *Jaune: à la batterie de la voiture (12V constant)*
- ③ *Rouge: à la prise accessoire*
- ④ *Autres: aux enceintes*
- ⑤ *Bleu à bandes blanches: à l'antenne automatique (200 mA max.)*
- ⑥ *Orange à bandes blanches: à l'interrupteur d'éclairage de la voiture*

2 *Connectez le cordon d'antenne.*

3 *Finalement, connectez le faisceau de fils à l'appareil.*


Antenna terminal
Terminal de la antena
Borne de l'antenne
To antenna
A la antena
A l'antenne
2
JVC CD changer jack
Jack para el cambiador de CD de JVC
Prise CD changeur JVC
You can connect a JVC CD changer to this jack.
• For their connections, refer to the instructions supplied with them. (See also "B Connections Adding Other Equipment.")
Podrá conectar un cambiador de CD de JVC de JVC a este jack.
• Para realizar las conexiones, refiérase a las instrucciones suministradas con los mismos. (Véase también " B Conexiones para añadir otros equipos").
Vous pouvez connecter un changeur CD JVC à cette prise.
• Pour leurs connexions, référez-vous aux modes d'emploi qui les accompagnent. (Référez-vous aussi à "B Raccordement pour ajouter d'autres appareils".)
10A fuse
Fusible de 10A
Fusible 10A
To subwoofer (ONLY FOR KD-LX3)
(see diagram B)
Al subwoofer (SOLO PARA KD-LX3)
(véase diagrama B)
Au caisson de grave
(SEULEMENT POUR LE KD-LX3)
(voir le diagramme B)
3
★ Not included with this unit.
No suministrado con esta unidad.
Non fourni avec cet appareil.
Ignition switch
Interruptor de encendido
Interrupteur d'allumage
Black
Negro
Noire
①
To metallic body or chassis of the car
A un cuerpo metálico o chasis del automóvil
Vers corps métallique ou châssis du véhicule
Line out/in (see diagram B)
Salida/entrada de línea (véase diagrama B)
Sortie/entrée de ligne (voir le diagramme B)
Rear ground terminal
Terminal de tierra posterior
Borne arrière de masse
1
Yellow*1
Amarillo*1
Jaune*1
②
To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch)
A un terminal activo del bloque de fusibles conectado a la batería del automóvil (desviando el interruptor de encendido)
A une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage)
Red
Rojo
Rouge
③
To an accessory terminal in the fuse block
A un terminal accesorio del bloque de fusibles
Vers borne accessoire du porte-fusible
Fuse block
Bloque de fusibles
Porte-fusible
Blue with white stripe
Azul con rayas blancas
Bleu avec bande blanche
⑤
To power antenna if any
A la antena motriz si la hubiere
Vers borne d'antenne automatique s'il y en a une
Orange with white stripe
Naranja con rayas blancas
Orange avec bande blanche
(ILLUMINATION)
⑥
To car light control switch
Al interruptor de control de las luces del automóvil
À l'interrupteur d'éclairage de la voiture
*1: Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*1: Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.
*1: Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.
4
White with black stripe
Blanco con rayas negras
Blanc avec bande noire
(–) (+)
White
Blanco
Blanc
Gray with black stripe
Gris con rayas negras
Streifen
Gris avec bande noire
Gray
Gris
Gris
Green with black stripe
Verde con rayas negras
Vert avec bande noire
Green
Verde
Vert
Purple with black stripe
Púrpura con rayas negras
Violet avec bande noire
Purple
Púrpura
Violet
Left speaker (front)
Altavoz izquierdo (frontal)
Haut-parleur gauche (avant)
Right speaker (front)
Altavoz derecho (frontal)
Haut-parleur droit (avant)
Left speaker (rear)
Altavoz izquierdo (trasero)
Haut-parleur gauche (arrière)
Right speaker (rear)
Altavoz derecho (trasero)
Haut-parleur droit (arrière)

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- Connect the black lead (ground), yellow lead (to car battery, constant 12V), and red lead (to an accessory terminal) correctly.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
  - **If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below,** DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged. Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
  - **If the speaker wiring in your car is as illustrated in Fig. 3,** you can connect the unit using the original speaker wiring in your car.
  - If you are not sure of the speaker wiring of your car, consult your car dealer.

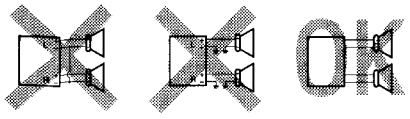


Fig. 1 Fig. 2 Fig. 3

PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- Conecte correctamente el conductor negro (a tierra), el conductor amarillo (a la batería del automóvil, 12V constantes), y el conductor rojo (a un terminal de accesorio).
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.
  - **Si el conexionado de altavoz de su automóvil es como se indica en las Fig. 1 y 2 de abajo,** NO conecte la unidad utilizando ese conexionado de altavoz original. Si lo hace, se producirán daños graves en la unidad. Vuelva a efectuar el conexionado de altavoz de manera que pueda conectar la unidad a los altavoces de la manera indicada en la Fig. 3.
  - **Si el conexionado de altavoz de su automóvil es como se indica en la Fig. 3,** podrá conectar la unidad utilizando el conexionado de altavoz original de su automóvil.
  - Si tiene dudas sobre el conexionado de altavoz de su automóvil, consulte con su concesionario.

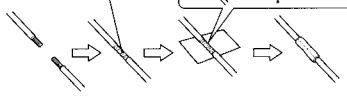
PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *Connectez correctement le fil noir (à la masse), le fil jaune (à la batterie de la voiture, 12V constant) et le fil rouge à la prise accessoire).*
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*
  - **Si le câblage des enceintes de votre voiture est réalisé comme montré sur la Fig. 1 ou Fig. 2 ci-dessous,** *NE CONNECTEZ PAS l'appareil en utilisant ce câblage original d'enceintes. Si vous le faites, l'appareil sera sérieusement endommagé. Recommencez le câblage des enceintes de façon que vous puissiez connecter l'appareil aux enceintes comme montré sur la Fig. 3.*
  - **Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 3,** *vous pouvez connecter l'appareil en utilisant ce câblage original d'enceintes pour votre voiture.*
  - *Si vous n'êtes pas sûrs du câblage d'enceintes de votre voiture, consulter le concessionnaire de votre voiture.*

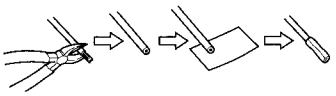
Connecting the leads / Conexión de los conductores / Raccordement des fils

Twist the core wires when connecting.
Retuerce los alambres de alma para conectarlos.
Torsader les âmes des fils en les raccordant.

Solder the core wires to connect them securely.
Suelde los alambres de alma para conectarlos con firmeza.
Souder les âmes desfils pour les raccorder entre eux de façon sûre.



CAUTION / PRECAUCION / PRECAUTION:
- **To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.**
- **Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.**
- **Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS utilisés avec de la bande isolante**



B Connections Adding Other Equipment / Conexiones para añadir otros equipos / Raccordement pour ajouter d'autres appareils

Amplifier / Amplificador / Amplificateur

Since this unit has line-out and line-in (ONLY FOR KD-LX3) terminals, an amplifier and other equipment can be used to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- For amplifier only:
  - Connect this unit's line-out terminals to the amplifier's line-in terminals.
  - **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of the these unused leads with insulating tape, as illustrated above.)**

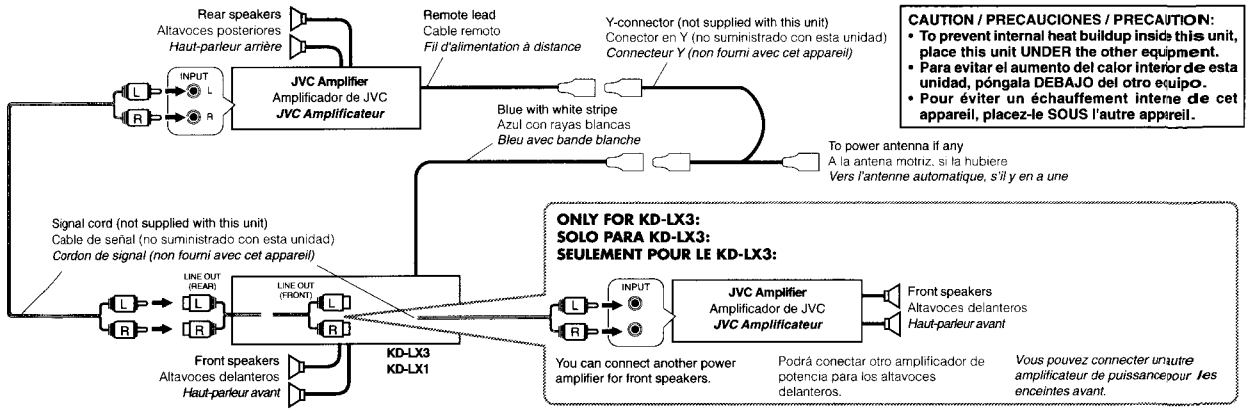
ONLY FOR KD-LX3
- For subwoofer only:
  - Connect this unit's SUBWOOFER OUT plugs to the amplifier's line-in jacks.
- For connecting the source equipment only :
  - Connect this unit's line-in terminals to the other equipment's line-out terminals.

Como esta unidad cuenta con terminales de salida de línea y de entrada de línea (SOLO PARA KD-LX3), se podrá utilizar un amplificador y otros equipos para mejorar el sistema estéreo de su automóvil.
- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
- Sólo para el amplificador:
  - Conecte los terminales de salida de línea de esta unidad con los terminales de entrada de línea del amplificador.
  - **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar. (Cubra los terminales de estos cables sin usar con cinta aislante, tal comose indica en la figura de arriba.)**

SOLO PARA KD-LX3
- Sólo para el subwoofer:
  - Conecte las clavijas SUBWOOFER OUT de esta unidad a los jacks de entrada de línea del amplificador.
- Para conectar el equipo fuente solamente:
  - Conecte los terminales de entrada de línea de esta unidad a los terminales de salida de línea del otro equipo.

Comme cet appareil a des bornes de sortie de ligne et d'entrée de ligne (SEULEMENT POUR LE KD-LX3), un amplificateur et d'autres appareils peuvent être utilisés pour améliorer votre chaîne stéréo automobile.
- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- *Pour l'amplificateur seulement:*
  - *Raccorder les bornes de sortie ligne de cet appareil aux bornes d'entrée ligne de l'amplificateur.*
  - **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés. (Recouvrir les extrémités de ces fils inutilisés avec de la bande isolante comme montré ci-dessus.)**

SEULEMENT POUR LE KD-LX3
- *Pour le caisson de grave seulement:*
  - *Connectez les fiches SUBWOOFER OUT de cet appareil aux prises d'entrée de ligne de l'amplificateur.*
- *Pour la connexion de l'appareil source uniquement:*
  - *Connectez les prises d'entrée de ligne de cet appareil aux prises de sortie de ligne de l'autre appareil.*



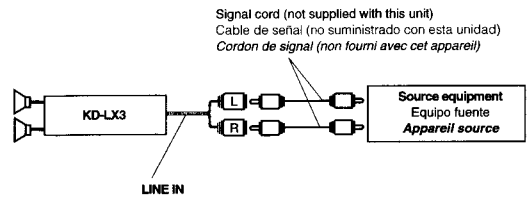
CAUTION / PRECAUCIONES / PRECAUTION:
- **To prevent internal heat buildup inside this unit, place this unit UNDER the other equipment.**
- **Para evitar el aumento del calor interior de esta unidad, póngala DEBAJO del otro equipo.**
- **Pour éviter un échauffement interne de cet appareil, placez-le SOUS l'autre appareil.**

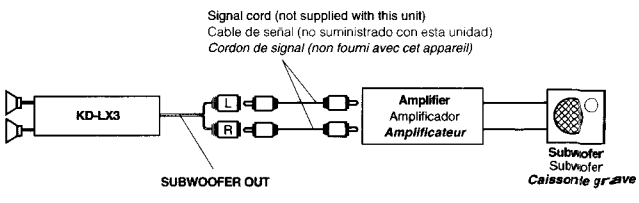
Subwoofer and other source equipment / Subwoofer y el otro equipo fuente / Caisson de grave et autre appareil source

ONLY FOR KD-LX3
For their connections, refer to the instructions supplied with each component.

SOLO PARA KD-LX3
Para las conexiones, refiérase a las instrucciones suministradas con cada componente.

SEULEMENT POUR LE KD-LX3
Pour leur connexion, référez-vous aux instructions fournies avec chaque appareil.


Signal cord (not supplied with this unit)
Cable de señal (no suministrado con esta unidad)
Cordon de signal (non fourni avec cet appareil)
KD-LX3
Source equipment
Equipo fuente
Appareil source
LINE IN



TROUBLESHOOTING

- **The fuse blows.**
  * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
  * Is the yellow lead connected?
- **No sound from the speakers.**
  * Is the speaker output lead short-circuited?
- **Sound is distorted.**
  * Is the speaker output lead grounded?
  * Are the "–" terminals of L and R speakers grounded in common?
- **Unit becomes hot.**
  * Is the speaker output lead grounded?
  * Are the "–" terminals of L and R speakers grounded in common?

LOCALIZACION DE AVERIAS

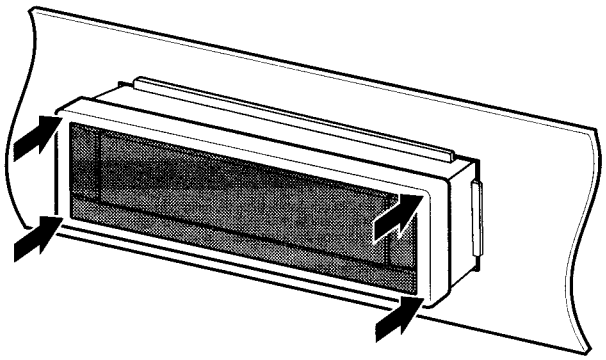
- **El fusible se quema.**
  * ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
  * ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
  * ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
  * ¿Está el cable de salida del altavoz conectado a masa?
  * ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **La unidad se calienta.**
  * ¿Está el cable de salida del altavoz conectado a masa?
  * ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?

EN CAS DE DIFFICULTÉS

- **Le fusible saute.**
  * *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
  * *Le fil jaune est-elle raccordée?*
- **Pas de son des haut-parleurs.**
  * *Le fil de sortie de haut-parleur est-il court-circuité*
- **Le son est déformé.**
  * *Le fil de sortie de haut-parleur est-il à la masse?*
  * *Les bornes "–" des haut-parleurs gauche et droit sont-elles mises ensemble à la masse?*
- **L'appareil devient chaud.**
  * *Le fil de sortie de haut-parleur est-il à la masse?*
  * *Les bornes "–" des haut-parleurs gauche et droit sont-elles mises ensemble à la masse?*

JVC

CAUTION



To install this unit, attach the trim plate to the unit first, then fit the unit into the mounting sleeve by pressing the four corners of the trim plate.
DO NOT press the panel (shaded in the illustration); otherwise the panel may become unable to open or close.

LVT0334-001A

JVC **IMPORTANT**

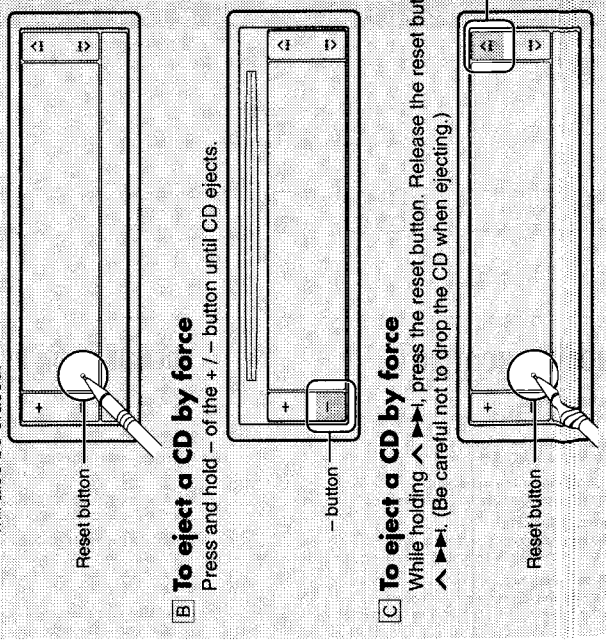
Notice the following information will help you solve the problems.
Keep this IMPORTANT sheet together with the INSTRUCTIONS book.

- **After installing the unit**
  → Follow the procedure A described below.
- **If the unit does not operate**
  → Follow the procedure A described below.
- **If a CD is not ejected from the loading slot**
  ① **"EJECT ERR" or "EJECT ERROR" appears on the display**
  → Follow the procedure B described below. (If the procedure B does not work, try the procedure A.)
  ② **No message appears on the display**
  → Follow the procedure C described below.
- **If a CD is not recognized (the source does not change to the CD) even though there is a CD in the loading slot**
  → Follow the procedure C described below. (If the procedure C does not work, try the procedure A.)

A **To reset the microcomputer**
Press the reset button on the front panel using a ball-point pen or a similar tool.
This will reset the built-in microcomputer.
NOTE: Your preset adjustments — such as preset channels or sound adjustments — will also be erased.

B **To eject a CD by force**
Press and hold – of the + / – button until CD ejects.

C **To eject a CD by force**
While holding ∧ ▶▶|, press the reset button. Release the reset button, then release ∧ ▶▶|. (Be careful not to drop the CD when ejecting.)

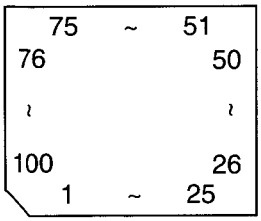


LVT0330-001A

Description of major IC's

■ UPD784215GC-101 (IC701):UNIT CPU

1.Terminal Layout



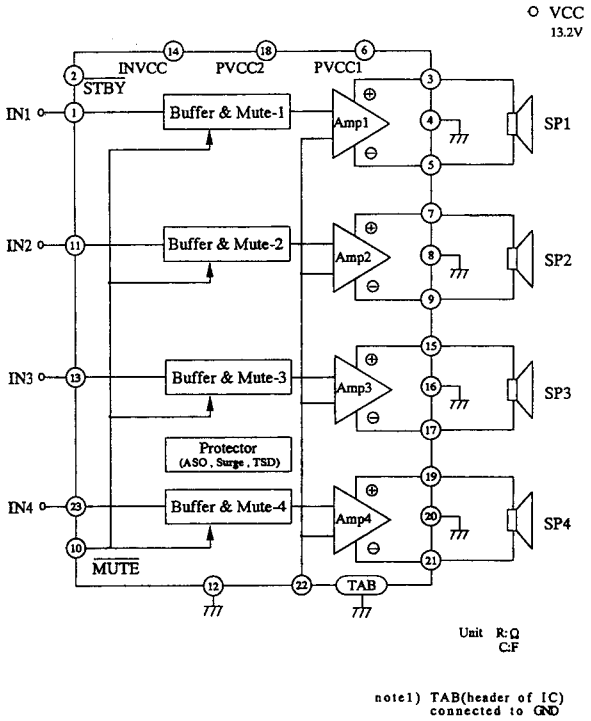
2.Pin Function (1/2)

Pin No.	Symbol	I/O	Function
1	SW2	I	Detection switch of CD mechanism
2	SW3	I	Detection switch of CD mechanism
3	SW4	I	Detection switch of CD mechanism
4	REST	I	Reset signal input from CD mechanism
5	LM0	O	Loading motor control signal output
6	LM1	O	Loading motor control signal output
7	NC	-	Non connect
8	NC	-	Non connect
9	VSS	-	Power supply terminal
10	X2	O	Connecting the crystal oscillator for system main clock
11	X1	I	Connecting the crystal oscillator for system main clock
12	VSS	-	Power supply terminal
13	XT2	O	Connecting the crystal oscillator for system sub clock
14	XT1	I	Connecting the crystal oscillator for system sub clock
15	RESET	I	System reset signal input
16	SW1	I	Detection switch of CD mechanism
17	BUSINT	I	Cut-in input for J-BUS signal
18	PS2	I	Power save 2, Working together back up by H input, to stop mode
19	CRUISE	I	Pulse signal input port for Cruise control
20	RDSSCK	I	Clock signal input for RDS
21	RDSDA	I	RDS data input
22	REMOCON	I	Remote control signal input
23	AVDD	-	Power supply terminal
24	AVREF0	-	Power supply terminal
25	VOL1	I	Input for rotation volume detection pulse judgment to relation V1
26	VOL2	I	Input for rotation volume detection pulse judgment to relation V2
27	KEY0	I	Key control signal input 0
28	KEY1	I	Key control signal input 1
29	KEY2	I	Key control signal input 2
30	LEVEL	I	Signal input port of level meter
31	SQ	I	S.Quality level input
32	SM	I	S.Meter level input
33	AVSS	-	Connect to GND
34	NC	-	Non connect
35	NC	-	Non connect
36	AVREF	-	Power supply terminal

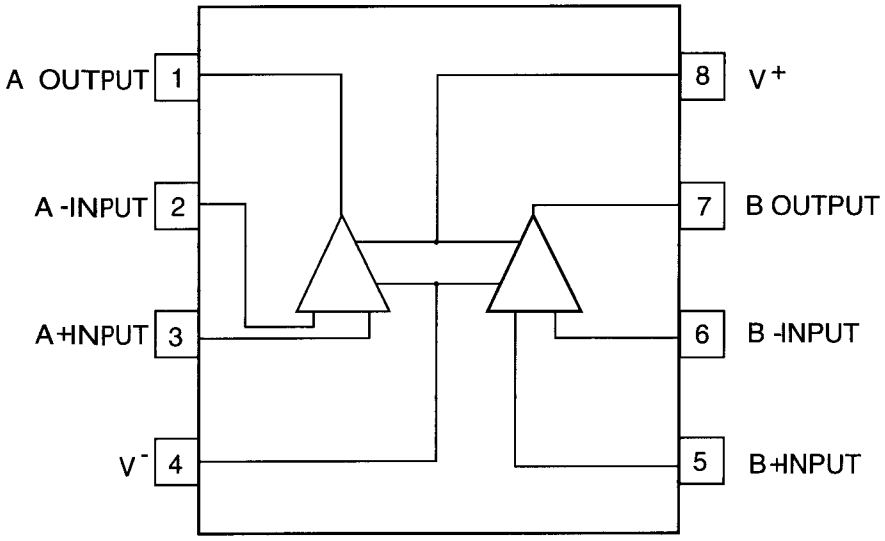
Pin Function (2/2)

Pin No.	Symbol	I/O	Function
37	BUSSI	I	J-BUS data input
38	BUSSO	O	J-BUS data output
39	BUSSCK	I/O	J-BUS Clock signal I/O
40	BUSI/O	O	I/O selector output for J-BUS, H:OUT L:IN
41	LCDDA	O	Data output to LCD driver
42	LCDCK	O	Clock output to LCD driver
43	LCDCE	O	Chip enable output to LCD driver
44	BUZZER	O	BUZZER control signal output
45	EPROMDI	I	Data input from EPROM (IC791)
46	EPROMDO	O	Data output to EPROM (IC791)
47	EPROMCK	I/O	EPROM Clock signal I/O
48	OPEN	I	Detect for front face open and shut input, H:OPEN L:SHUT
49~52	NC	-	Non connect
53	SD/ST	I	Station detector, Stereo signal input, H:Find Station L:Stereo
54	LOCAL	O	Local ON/OFF selecting output, H:LOCAL ON
55	MONO	O	Monaural ON/OFF selecting output, H:MONO ON
56~60	NC	-	Non connect
61	DETACH	I	Input for detach signal, To action mode of L ,
62	AFCK	O	AF check output, L:AF check
63	SEEK/STOP	O	Auto seek/stop selecting output, H:Seek L:Stop
64	NC	-	Non connect
65	FM/AM	O	Selecting output for FM/AM, L:FM H:AM
66	PLLCE	O	Chip enable output to IC21
67	PLLDA	O	Data output to IC21
68	PLLCK	O	Clock output to IC21
69	PLLDI	I	Data input from IC21
70	TELMUTE	I	Input for telephone mute detecting, H:mute
71	NC	-	Non connect
72	VSS	-	Connect to GND
73	DIMIN	I	DIMMER signal input port
74	PS1	I	Power supply terminal
75	POWER	O	Selecting output for power ON/OFF, H:power ON
76	CDON	O	Power supply control signal for CD H:CD
77	MUTE	O	MUTE output, L:MUTE ON
78	NC	-	Non connect
79	NC	-	Non connect
80	NC	-	Non connect
81	VDD	-	Power supply terminal
82	VOLCE	O	Chip enable output to IC911
83	VOLDA	O	Data output to IC911
84	VOLCK	O	Clock output to IC911
85	BBE	O	BBE control signal output
86~89	NC	-	Non connect
90	STAGE1	I	Initial setting H: KD-SX999R/SX949J L: KD-SX959R/SX940J
91	BUCK	O	Micon interface clock output terminal
92	CCB	O	Command and data sending/receiving chip enable signal output
93	RST	O	Reset signal output terminal reset at "L" level
94	TEST	-	Connect to GND
95~98	BUS0~3	I/O	Micon interface data input/output terminal
99	DISCSEL	I	Initial setting H:Correspondence 8cm disc L:uncorrespondence 8cm disc
100	J/E	I	Initial setting H: Ver.J L:Ver.R

■HA13158 (IC941) : BTL Amplifier

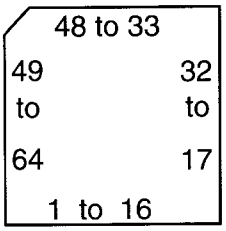


■NJM4565M (IC151) CD L.P.F.

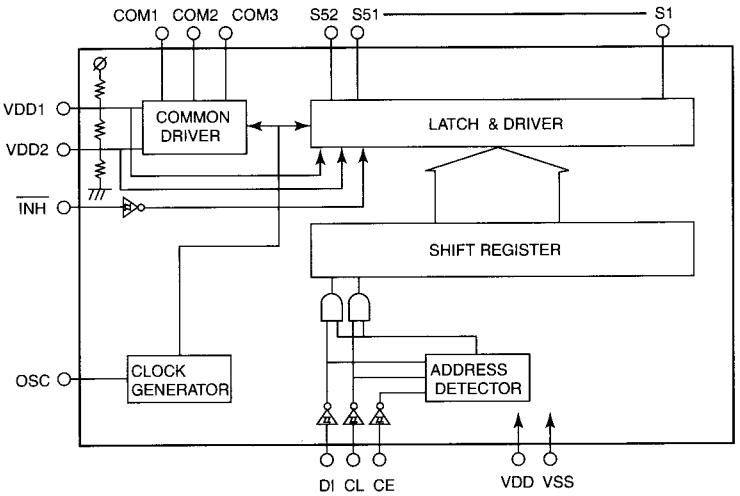


■ LC75823E(IC851):LCD DRIVER

1.Terminal Layout



2.Block Diagram

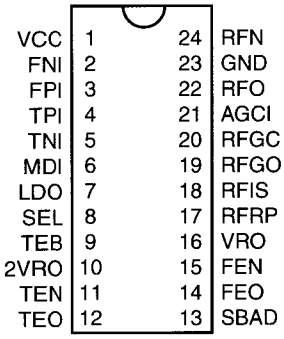


3.Pin Function

PIN No.	Symbol	I/O	Functions
1 to 9		-	NOT USED
10 to 52	S10 to S52	O	Segment outputs that display data transferred from serial data.
53 to 55	COM1 to COM3	O	The frame frequency (fo) for the common driver output is (fosc/384)Hz.
56	VDD	-	Power supply
57	/INH	I	Forcibly terns off the display. regardless of internal data. Serial data can be input. whether this pin is high or low
58 59		- -	NOT USED
60	VSS	-	To GND
61	OSC	I	Oscillator connection (for the common segment alternating waveform)
62 63 64	CE CL DI	I I I	Serial data transfer pins.connected to a microprocessor. ┌ CE : Chip enable CL : Sync.clock └ DI : Transfer data

■ TA2109F (IC501) : RF AMP

1.Terminal Layout

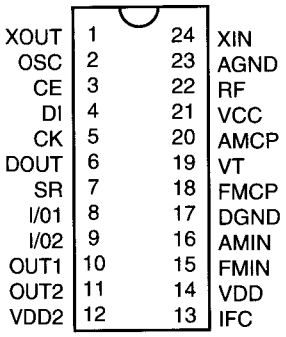


2.Pin Function

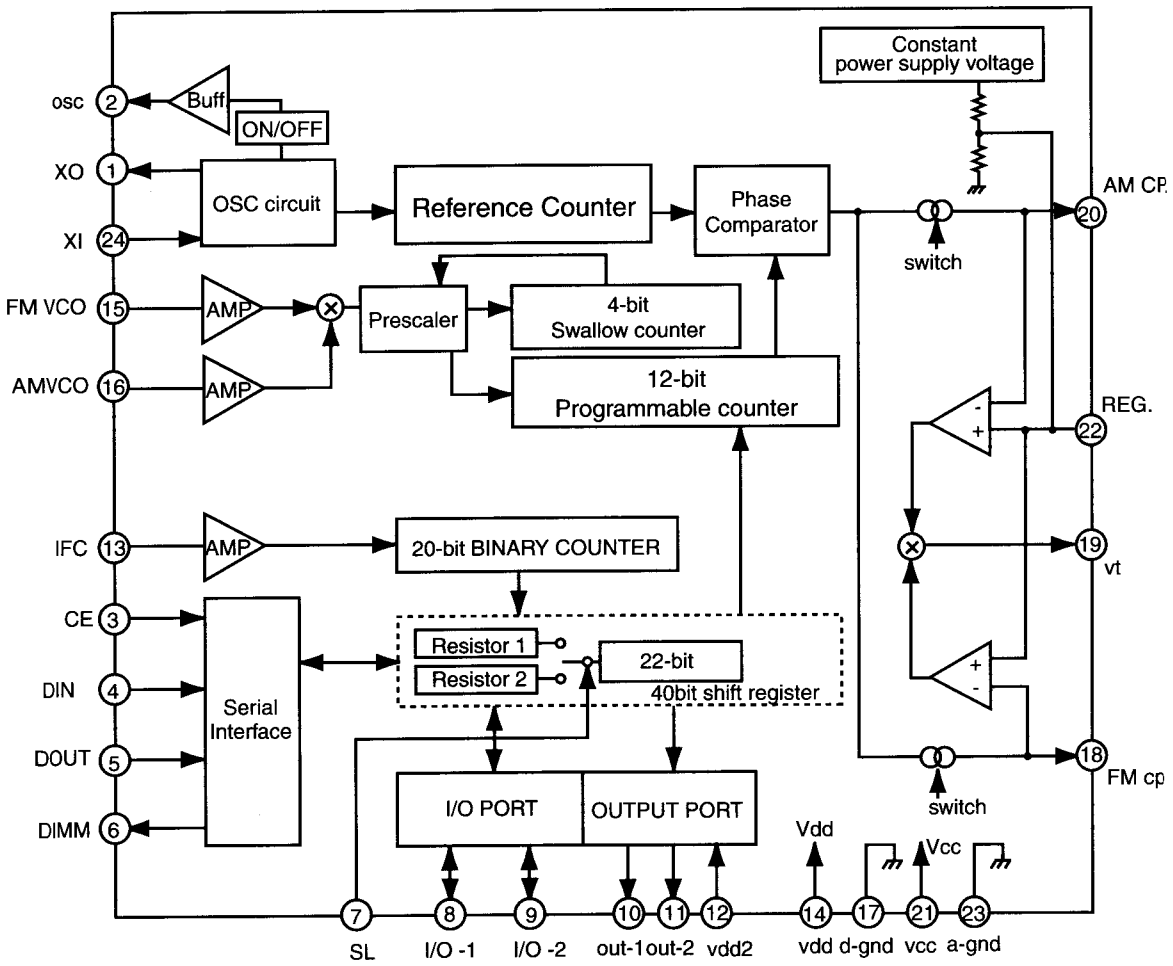
Pin No.	Symbol	I/O	Descriptions
1	VCC	-	Power supply input terminal
2	FNI	I	Main beam I-V amp input terminal
3	FPI	I	Main beam I-V amp input terminal
4	TPI	I	Sub beam I-V amp input terminal
5	TNI	I	Sub beam I-V amp input terminal
6	MDI	I	Monitor photo diode amp input terminal
7	LDO	O	Laser diode amp output terminal
8	SEL	I	Laser diode control signal input terminal and APC circuit ON/OFF control signal input terminal
9	TEB	I	Tracking error balance adjustment signal input terminal Controlled by 3 PWM signal
10	2VRO	O	Reference voltage (2Vref) output terminal 2Vref=4.2V when Vcc=5V
11	TEN	I	TE amp negative input terminal
12	TEO	O	TE error signal output terminal
13	SBAD	O	Sub beam adder signal output terminal
14	FEO	O	Focus error signal output terminal
15	FEN	I	FE amp negative input terminal
16	VRO	O	Reference voltage (Vref) output terminal Vref=2.1V when Vcc=5V
17	RFRP	O	Track count signal output terminal
18	RFIS	I	RFRP detect circuit input terminal
19	RFGO	O	RF gain signal output terminal
20	RFGC	I	RF amplitude adjustment control signal input terminal controlled by 3 PWM signal (PWM carrier =88.2 kHz)
21	AGCI	I	RF signal amplitude adjustment amp input terminal
22	RFO	O	RF signal output terminal
23	GND	-	Connect to GND
24	RFN	I	RF amp negative input terminal

■ TB2118F(IC21) : PLL

1.Terminal Layout



2.Block Diagrams

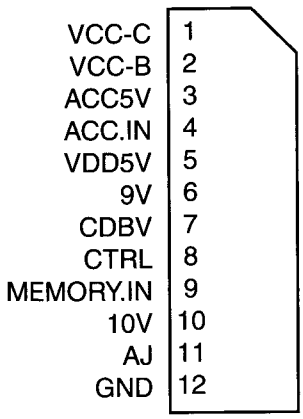


3.Pin Function

Pin No.	Symbol	I/O	Descriptions
1	XOUT	O	Crystal oscillator pin
2	OSC	-	Non connect
3	CE	I	Chip enable input
4	DI	I	Serial data input
5	CK	I	Clock input
6	DOUT	O	Serial data output
7	SR	O	Register control pin
8	I/01	I/O	I/O ports
9	I/02	I/O	I/O ports
10	OUT1	-	Non connect
11	OUT2	-	Non connect
12	VDD2	-	Single power supply for reference frequency block
13	IFC	I	IF signal input
14	VDD	-	Power pins for digital block (digital circuits)
15	FMIN	I	FM band local signal input
16	AMIN	I	AM band local signal input
17	DGND	-	Connect to GND (for digital circuit)
18	FMCP	O	Charge pump output for FM
19	VT	-	Tuning voltage (Input from the plus terminal of the op-amp is internally biased to 2.5V.
20	AMCP	O	Charge pump output for AM
21	VCC	-	Power pins for analog block (eg, op-amps, constant-voltage supply)
22	RF	I	Ripple filter connecting pin
23	AGND	-	Connect to GND (for analog circuit)
24	XIN	I	Crystal oscillator pin

■ BA4901A-V3(IC961):DC REGULATOR

1.Terminal Layout

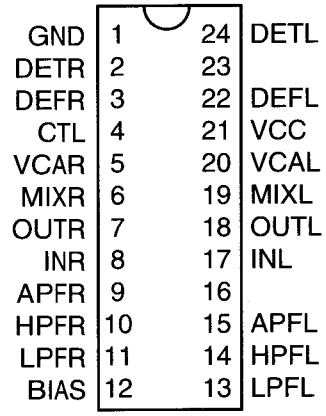


2.Pin Function

Pin No.	Symbol	Descriptions
1	VCC-C	To be connected with the collector of PNP.
2	VCC-B	To be connected with the base of PNP.
3	ACC5V	A voltage supply for ACC block.
4	ACC.IN	Control of the COMP output by inputting voltage.
5	VDD5V	Output voltage level is 5.7V, and max output current is 100mA. This voltage supply is for microcomputer. Whenever backup voltage supply is connected, the output keeps on running.
6	9V	This output voltage is 9.0V, and max output current is 500mA. This voltage supply for AUDIO.
7	CDBV	This output voltage is 8.0V, and max output current is 1A This voltage supply for CD.
8	CTRL	Output selector of CD, AUDIO, ILM and Vcc-B.
9	MEMORY.IN	To be connected with the BACKUP of car
10	10V	This output voltage is 10V, and max output current is 500mA. Output voltage is adjustable.
11	AJ	Putting a resistance between ILM and AJ or between AJ and GND males ILM output voltage adjustable.
12	GND	Connect to GND

■ BA3880FS (IC181) : BBE

1.Terminal Layout

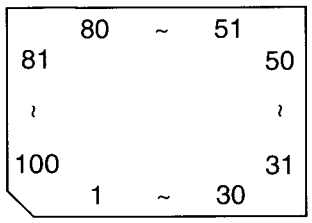


2.Pin Function

Pin No.	Symbol	I/O	Descriptions
1	GND	-	Connect to GND
2	DETR	O	Peak level detector output for treble VCA control
3	DEFR	I	Control signal time constant terminal
4	CTL	I	Control signal input terminal
5	VCAR	O	Treble CA output terminal
6	MIXR	O	Output MIX amplifier summing terminal
7	OUTR	O	Signal output terminal
8	INR	I	Signal input terminal
9	APFR	O	Input inversion amplifier output terminal
10	HPFR	O	HPF output terminal
11	LPFR	O	LPF output terminal
12	BIAS	O	Reference voltage output terminal
13	LPFL	O	LPF output terminal
14	HPFL	O	HPF output terminal
15	APFL	I	Input inversion amplifier output terminal
16		-	Non connect
17	INL	I	Signal input terminal
18	OUTL	O	Signal output terminal
19	MIXL	O	Output MIX amplifier summing terminal
20	VCAL	O	Treble CA output terminal
21	VCC	-	Power supply terminal
22	DEFL	I	Control signal time constant terminal
23		-	Non connect
24	DETL	O	Peak level detector output for treble VCA control

■ TC9462F (IC521) : DSP & DAC

1.Terminal Layout



2.Pin Function (1/2)

Pin No.	Symbol	I/O	Function
1	TEST0	I	Test mode terminal. Normally, keep at open
2	HSO	O	Playback speed mode flag output terminal
3	UHSO	O	Playback speed mode flag output terminal
4	EMPH	O	Sub code Q data emphasis flag output terminal. "H"=ON "L"=OFF
5	LRCK	O	Channel clock output terminal.(44.1kHz) "H"=Rch "L"=Lch
6	Vss	-	Digital GND terminal
7	BCK	O	Bit clock output terminal. (1.4122MHz)
8	AOUT	O	Audio data output terminal
9	DOUT	O	Digital data output terminal
10	MBOV	O	Buffer memory over signal output terminal.
11	IPF	O	Correction flag output terminal
12	SBOK	O	Sub code Q data CRCC check adjusting result output terminal. "H"=result OK
13	CLCK	I/O	Sub code P~W data readout input/output terminal
14	Vdd	-	Digital power supply voltage terminal
15	Vss	-	Digital GND terminal
16	DATA	O	Sub code P~W data output terminal
17	SFSY	O	Play-back frame sync signal output terminal
18	SBSY	O	Sub code block sync signal output terminal
19	SPCK	O	Processor status signal readout clock output terminal
20	SPDA	O	Processor status signal output terminal
21	COFS	O	Correction frame clock output terminal (7.35kHz)
22	MONIT	O	Internal signal (DSP internal flag and PLL clock) output terminal
23	Vdd	-	Digital power supply voltage terminal
24	TESIO0	I	Test input/output terminal. Normally, keep at "L" level
25	P2VREF	-	PLL double reference voltage supply terminal
26	HSSW	O	2/4 times speed at "Vref" voltage
27	ZDET	O	1bit DA converter zero detect flag output terminal
28	PDO	O	Phase difference signal output terminal of EFM signal and PLCK signal
29	TMAXS	O	TMAX detection result output terminal. Selected by command bit (TMPS)
30	TMAX	O	TMAX detection result output terminal. Selected by command bit (TMPS)
31	LPFN	I	LPF amplifier inverting input terminal for PLL
32	LPFO	O	LPF amplifier output terminal for PLL
33	PVREF	-	PLL reference voltage supply terminal
34	VCOREF	I	VCO center frequency reference level terminal
35	VCOF	O	VCO filter terminal
36	AVss	-	Analog GND terminal
37	SLCO	O	Data slice level output terminal
38	RFI	I	RF signal input terminal
39	AVDD	-	Analog power supply voltage terminal

2.Pin Function (2/2)

Pin No.	Symbol	I/O	Function
40	RFCT	I	RFRP signal center level input terminal
41	RFZI	I	RFRP zero cross input terminal
42	RFRP	I	RF ripple signal input terminal
43	FEI	I	Focus error signal input terminal
44	SBAD	I	Sub-beam adder signal input terminal
45	TSIN	I	Test input terminal Normally, keep at "vref" level
46	TEI	I	Tracking error signal input terminal. Take in at tracking servo ON.
47	TEZI	I	Tracking error zero cross input terminal
48	FOO	O	Focus servo equalizer output terminal
49	TRO	O	Tracking servo equalizer output terminal
50	VREF	-	Analog reference voltage supply terminal
51	RFGC	O	RF amplitude adjustment control signal output terminal
52	TEBC	O	Tracking balance control signal output terminal
53	FMO	O	Feed equalizer output terminal
54	FVO	O	Speed error signal or feed search equalizer output terminal
55	DMO	O	Disk equalizer output terminal (PWM carrier=88.2kHz for DSP, Synchronize to PXO)
56	2VREF	-	Analog double reference voltage supply terminal
57	SEL	O	APC circuit ON/OFF indication signal output terminal
58~61	FLGA~D	O	External flag output terminal for internal signal
62	VDD	-	Digital power supply voltage terminal
63	VSS	-	Digital GND terminal
64~67	IO0~3	I/O	General I/O terminal
68	DMOUT	I	This terminal control IO0~IO3 terminal
69	CKSE	I	Normally, keep at open
70	DACT	I	DAC test mode terminal. Normally, keep at open
71	TESIN	I	Test input terminal, Normally, keep at "L" level
72	TESIO1	I	Test input/output terminal. Normally, keep at "L" level
73	VSS	-	Digital GND terminal
74	PXI	I	Crystal oscillator connecting input terminal for DSP
75	PXO	O	Crystal oscillator connecting output terminal for DSP
76	VDD	-	Digital power supply voltage terminal
77	XVSS	-	Oscillator GND terminal for system clock
78	XI	I	Crystal oscillator connecting input terminal for system clock
79	XO	O	Crystal oscillator connecting output terminal for system clock
80	XVDD	-	Oscillator power supply voltage terminal for system clock
81	DVSR	-	Analog GND terminal for DA converter (Rch)
82	RO	O	R channel data forward output terminal
83	DVDD	-	Analog supply voltage terminal for DA converter
84	DVR	-	Reference voltage terminal for DA converter
85	LO	O	L channel data forward output terminal
86	DVSL	-	Analog GND terminal for DA converter (Lch)
87~89	TEST1~3	I	Test mode terminal . Normal keep at open
90~93	BUS0~3	I/O	Micon interface data input/output terminal
94	VDD	-	Digital power supply voltage terminal
95	VSS	-	Digital GND terminal
96	BUCK	I	Micon interface clock input terminal
97	CCE	I	Command and data sending/receiving chip enable signal input terminal
98	TEST4	I	Test mode terminal. Normal, keep at open
99	TSMOD	I	Local test mode selection terminal
100	RST	I	Reset signal input terminal. Reset at "L" level

Disassembly method

■ Removing the Top Chassis (See Fig.1 to 5)

1. Remove the two A screws attaching the bottom cover to the top chassis on the bottom of the body.
2. Remove the two B screws attaching the top chassis on both sides of the body.
3. Remove the two C screws and the D screw attaching the heat sink on the left side of the body.
4. Remove the two E screws and the F screw attaching the top chassis on the back of the body.
5. Remove the two G screws attaching the top chassis on the upper side of the body.
6. Move the top chassis upward, then pull and disconnect the connector of the CD mechanism from connector CN501 and CN502 on the main board. Remove the top chassis from the body.

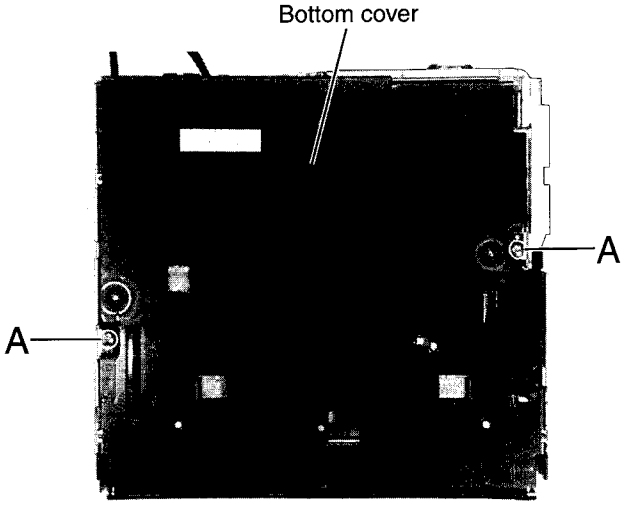


Fig.3

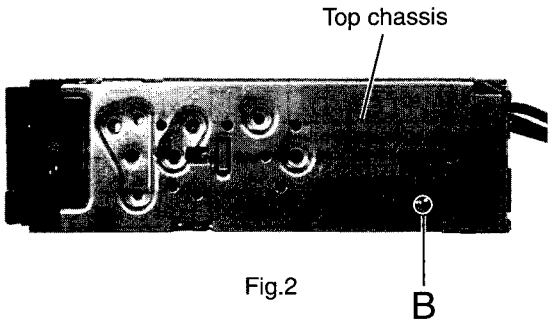


Fig.2

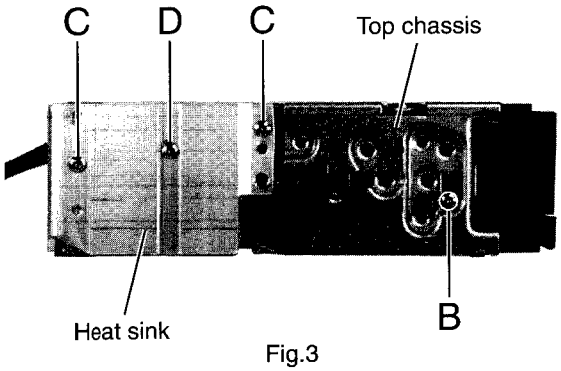


Fig.3

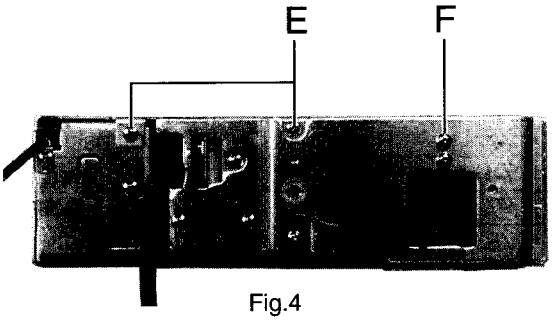


Fig.4

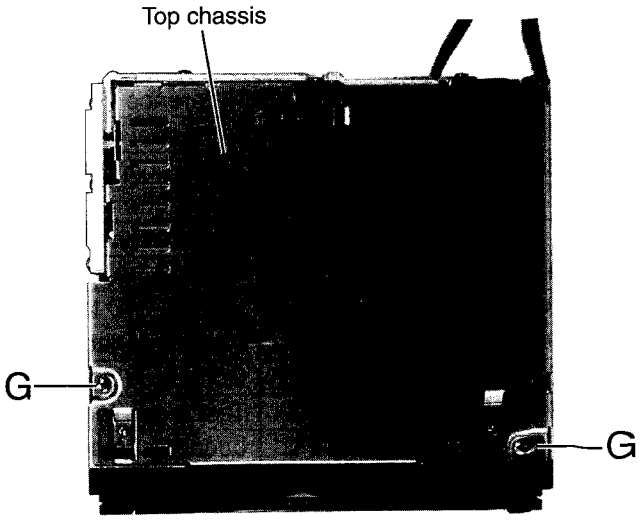


Fig.5

■ Removing the Main Board Assembly

(See Fig.6 and 7)

- Prior to performing the following procedure, remove the top chassis.

1. Disconnect the flexible harness from connector CN701, the card wire from CN702 on the main board and each harness from CN503, CN504 and CN704 respectively.

2. Remove the two H screws attaching the main board assembly to the bottom cover on the upper side of the body.

3. Remove the screw I attaching the rear panel and the bottom cover on the back of the body. Move the main board in the direction of the arrow and release the two joints a. (At this point, the main board can be removed with the rear panel and the rear heat sink.)

4. Remove the J screw and the two K screws attaching the rear heat sink on the back of the body.

5. Remove the two L screws and the M screws attaching the rear panel. Detach the main board assembly from the body.

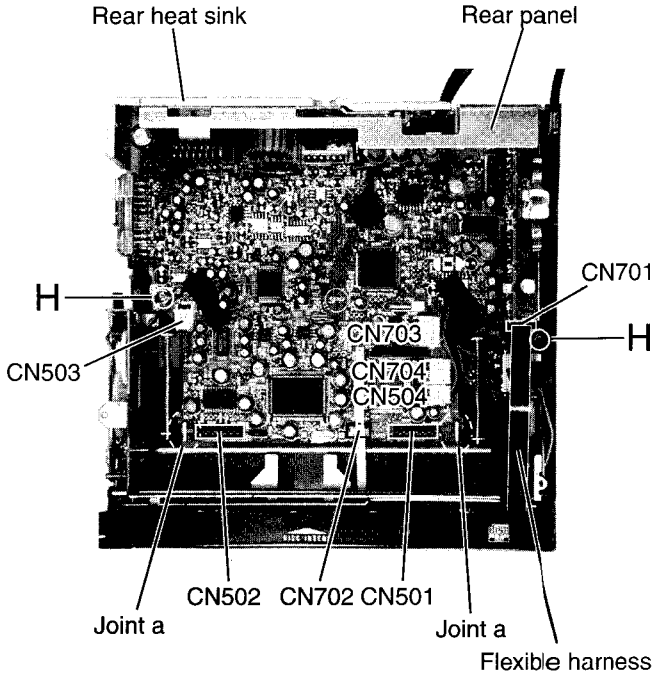


Fig.6

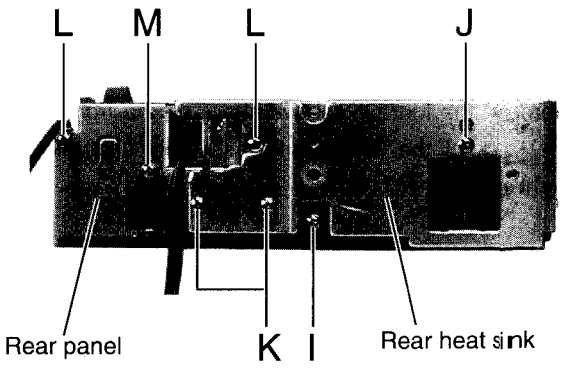


Fig.7

■ Removing the Front Panel Assembly

(See Fig.6,8 and 9)

- Prior to performing the following procedure, remove the top chassis assembly.

1. Disconnect the flexible harness from connector CN701 on the main board assembly.
2. Remove the four N screws attaching the front panel assembly on both sides of the body. Remove the front panel toward the front.

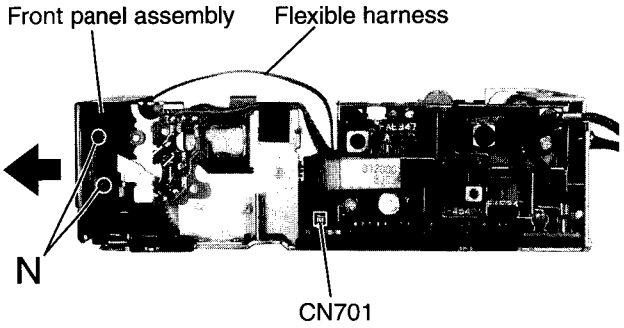


Fig.8

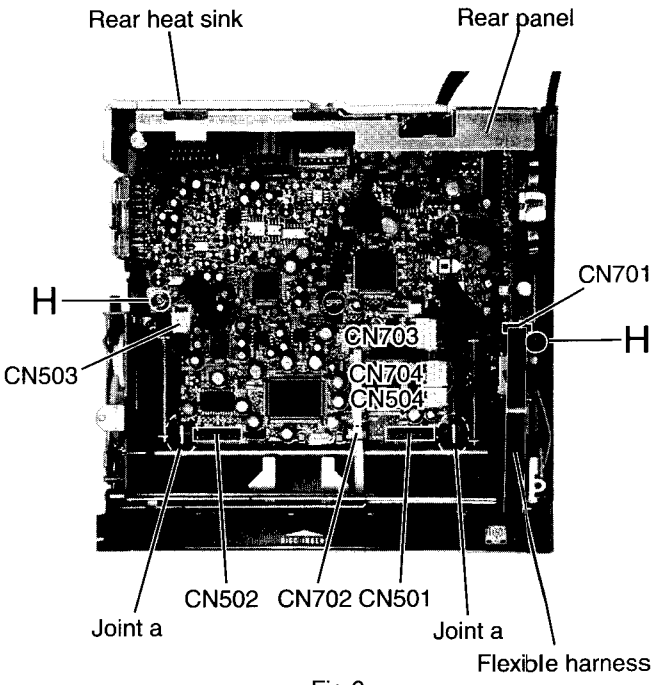


Fig.6

■ Removing the Front Board (See Fig.10)

1. Prior to performing the following procedure, remove the top chassis assembly and the front panel assembly.
2. Remove the four O screws attaching the front board on the back of the front panel assembly and release the eight joints b.

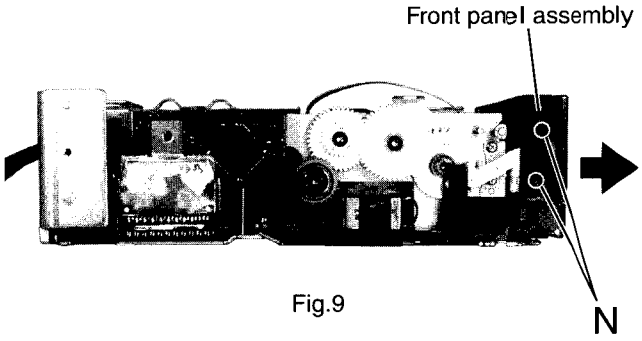


Fig.9

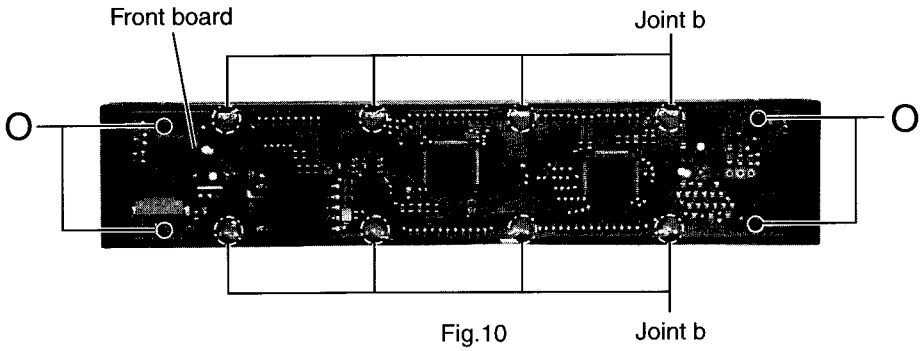


Fig.10

■ Removing the Lifter Detecting Board (See Fig.11)

- Prior to performing the following procedure, remove the top chassis assembly.

1. Disconnect the 3pin harness from connector CN704 on the main board.
2. Remove the screw P attaching the lifter detecting board on the right side of the body.

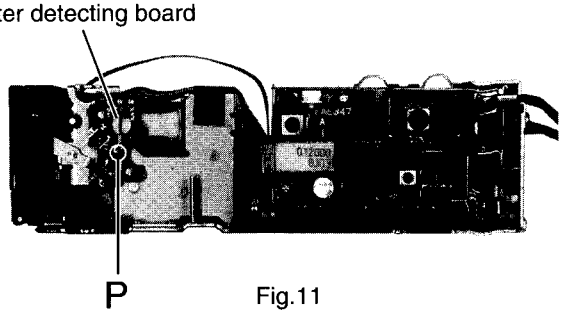


Fig.11

■ Removing the Lifter Unit (See Fig.12)

- Prior to performing the following procedure, remove the top chassis assembly and the front panel assembly.

1. Disconnect the harness from connector CN503, CN504 and CN704 on the main board.
2. Remove the four Q screws attaching the lifter unit assembly and remove the lifter unit from the bottom cover.

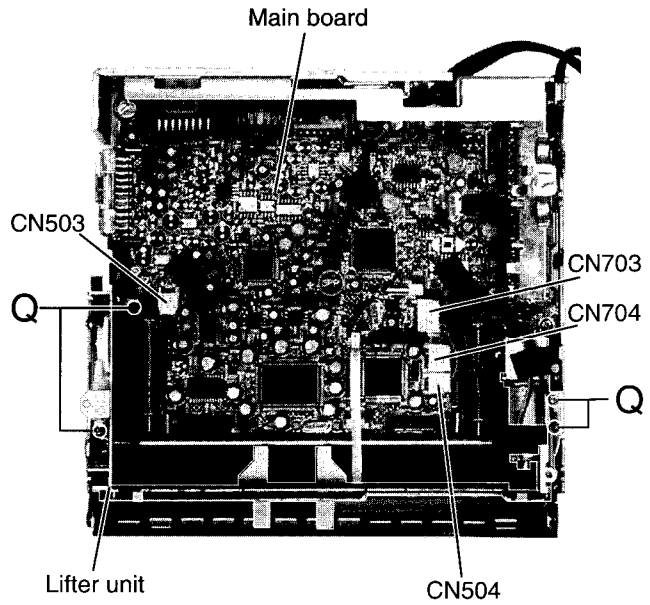


Fig.12

■ Removing the Feed Motor (L) (See Fig.13)

- Prior to performing the following procedure, remove the lifter unit.

1. Remove the washer attaching the clutch assembly and detach the clutch assembly from the shaft of the lifter unit.
2. Remove the two R screws attaching the feed motor (L).

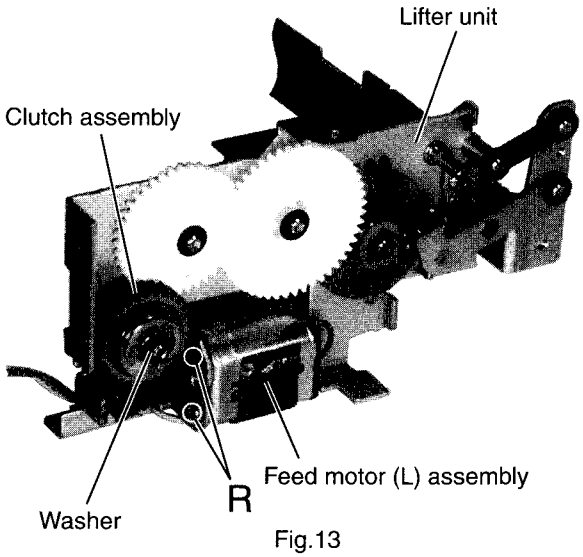


Fig.13

■ Removing the Feed Motor (R) (See Fig.14)

- Prior to performing the following procedure, remove the lifter unit.

1. Remove the washer attaching the clutch assembly and detach the clutch assembly from the shaft of the lifter unit.
2. Remove the two S screws attaching the feed motor (R).

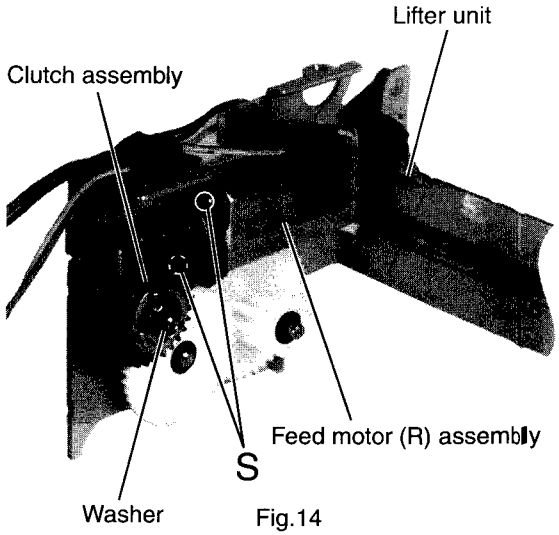


Fig.14

■ Removing the Operation Assembly

(See Fig.15 to 18)

- Prior to performing the following procedure, remove the top chassis assembly, the front panel assembly and the lifer unit.

1. Disconnect the card wire from connector CN702 on the main board and remove the operation assembly.

CAUTION: when reassembling, correctly engage the switch S561 and S562 on the main board and the right gear with the part e of the operation assembly.

As the left gear, attach the part f of the operation assembly inside of the stopper g and move the assembly toward the main board until it stops.

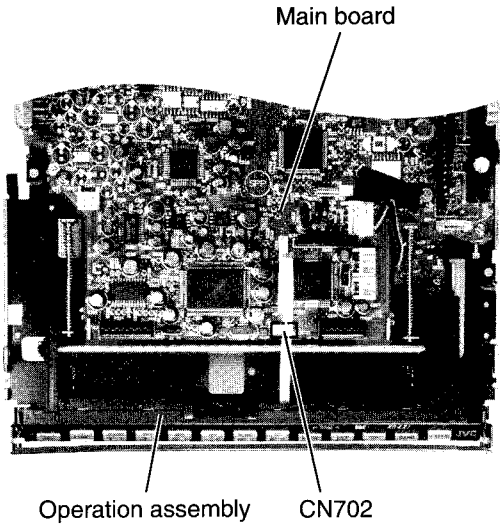


Fig.15

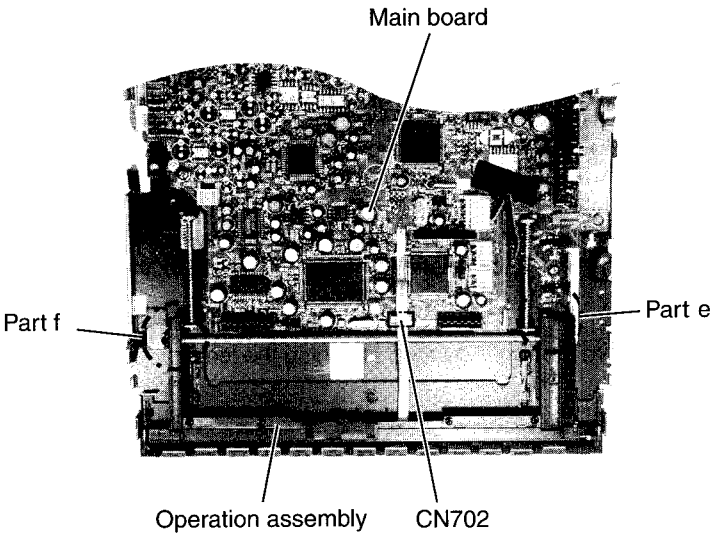


Fig.16

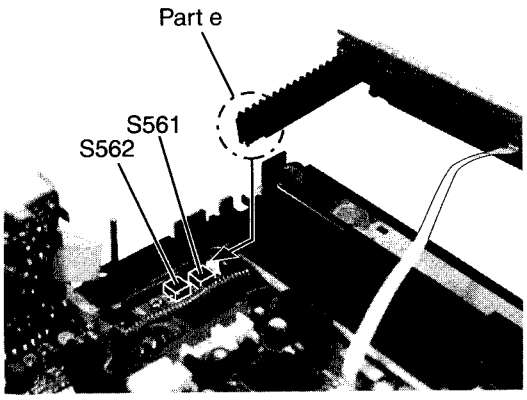


Fig.17

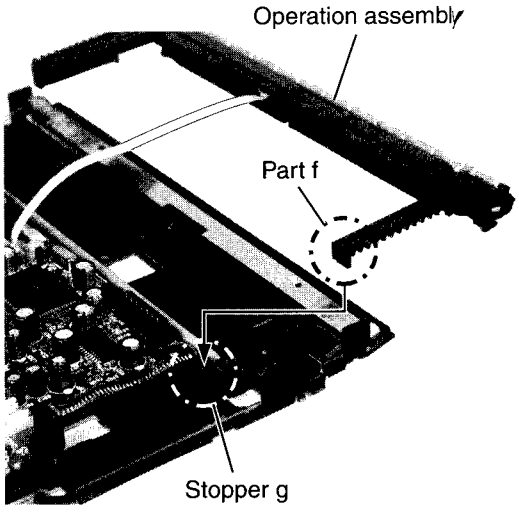


Fig.18

■ Removing the Operation Switch Board

(See Fig.19 and 20)

- Prior to performing the following procedure, remove the operation assembly.

1. Remove the screw T attaching the plate spring and the four U screws attaching the button panel on the operation assembly.
2. Pull the operation switch board from inside of the button panel.

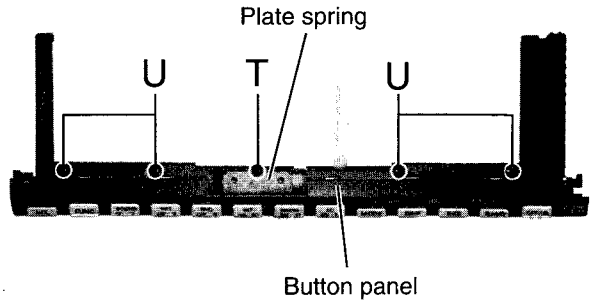


Fig.19

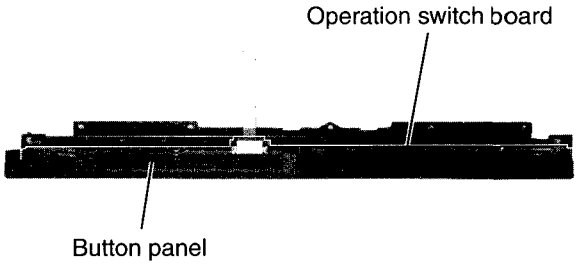


Fig.20

■ Removing the Button Panel Detecting Board

(See Fig.21)

- Prior to performing the following procedure, remove the top chassis assembly, the front panel assembly, the lifer unit and the operation assembly.

1. Disconnect the harness from connector CN703 on the main board.
2. Remove the screw V attaching the button panel detecting board on the upper side of the body. Remove the button panel detecting board from the bottom cover.

CAUTION: When reassembling, position the board by two points h before screwing it up.

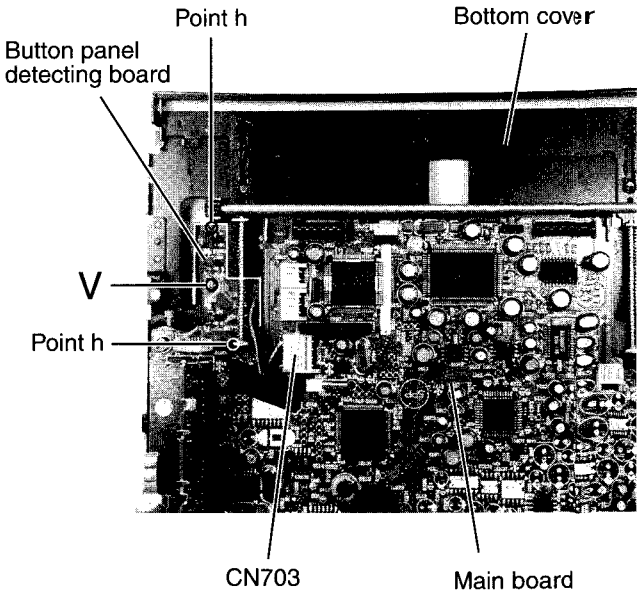


Fig.21

■ Removing the CD Mechanism Assembly

(See Fig.22)

- Prior to performing the following procedure, remove the top chassis assembly.

1. Remove the three W screws attaching the CD mechanism assembly on the top chassis and detach the CD mechanism assembly from the top chassis.

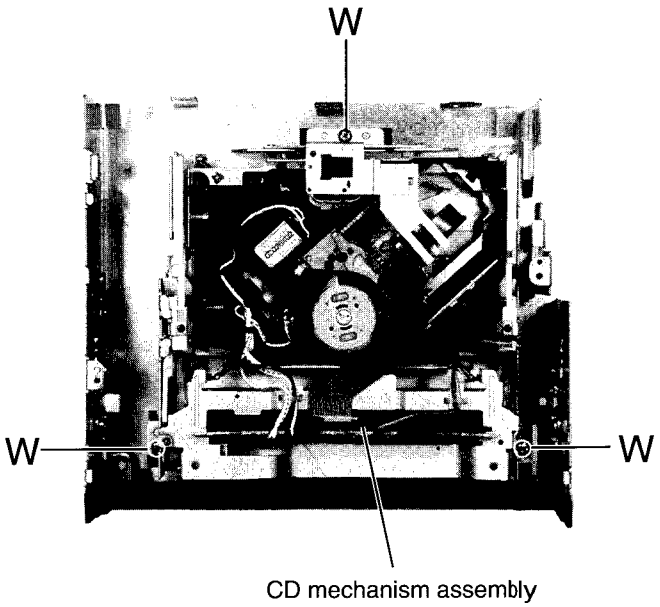


Fig.22

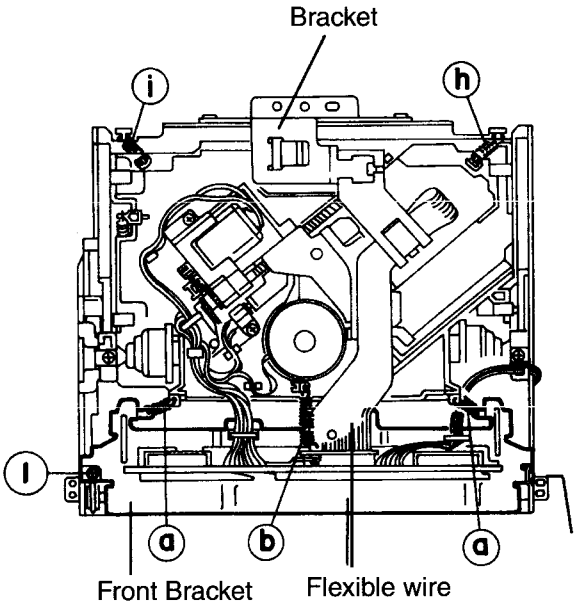


Fig.10

[CD Mechanism Section]

■ Removing the CD mechanism control P.C.board

1. Remove the CD mechanism assembly (See "Removlng the CD mechanism assembly").
2. Remove the three springs ⓐ and ⓑ from behind the CD mechanism assembly(See Fing.10).
3. Disc connect the flexible wire connected to the connector on the CD mechanism control P.C.board (See Fig.10).
4. Remove the one screw ② retaining the CD mechanism control P.C.board(See Fig. 11).
5. After disengaging the engagement between the notch section Ⓒ and frame,remove the CD mechanism Control P.C .board successively from ① through to ③ in the arrow direction as shown in Fig. 11.

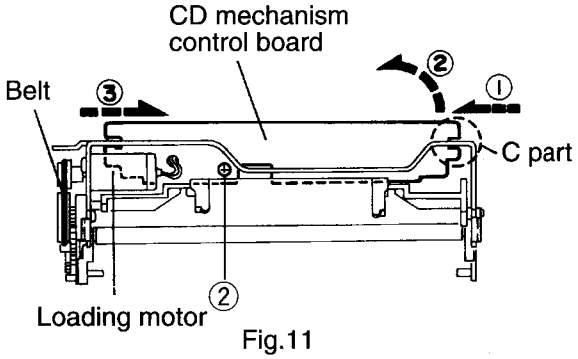


Fig.11

CAUTION:Whenever the flexible wire is disconnected, be sure to remove the soldering in advance as shown in Fig.12. Otherwise , the CD mechanism assembly can possibly be damaged.

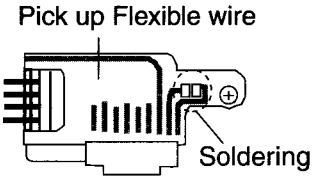


Fig.12

6. Remove the two screws ① retaining the front bracket for fixing the CD mechanism control P. C. board(See Fig.10).

CAUTION:Remove the front bracket from the frame while expanding both sides of the frame as shown in Fig.14

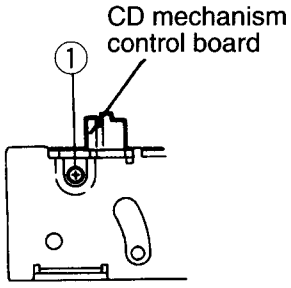


Fig.13

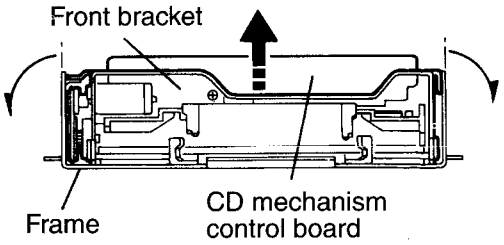


Fig.14

■ Removing the loading motor

1.Remove the belt from the loading motor (See FIg.14 and Fig.15)
2.Remove the one screw ③ retaining the loading motor(See Fig.15)

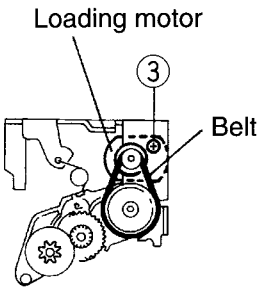


Fig.15

■ Removing the CD mechanism assembly

1.Remove the two screws ④ retaining the bracket for fixing the damper(See Fig.16)
2.Whne shining the fix places on the right and left Sides respectively to the arrow direction, lower the entire CD mechanism. When the shafts(ⓓ ,ⓔ ,ⓕ and ⓖ) on both the right and left sides have been set free as shown in Fig.17 and Fig.18,then the assembly can be removed easily.Remove the two screws ⑤ retaining the rear damper bracket to make it easier to remove the damper from the rear damper bracket(See Fig.10, Fig.17 and Fig.18).
3.Remove the two springs ⓗ and ⓘ as shown in Fig.10 and Fig 16.
4.While removing the right and left sides of the rear damper brackets and dampers While expanding both sides of the CD mechanism,disassmble the entire CD mechanism.

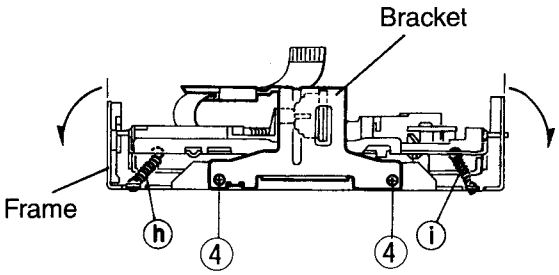


Fig.16

Fix plate

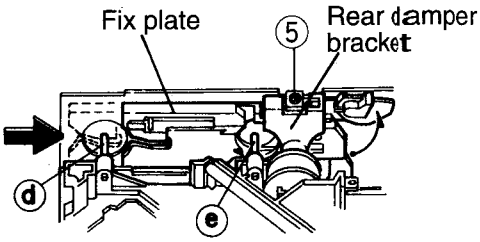


Fig.17

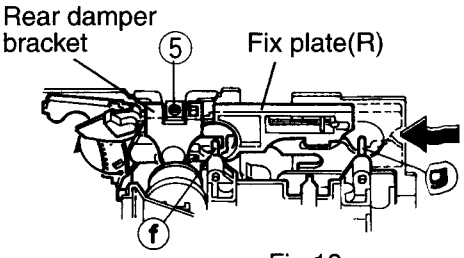


Fig.18

5.While tuning the pickup gear in the arrow direction as shown in Fig.20, shift the entire pickup unit.
6.Remove the three screws ⑥ retaining the feed motor assembly and take out this motor assembly (See Fig.19).
7.While pressing and expanding the spring section holding the FD screw in the arrow direction,remove the FD screw and dismount the pickup unit(See Fig.21).
8.By removing the two screw ⑦ retaining the pickup unit,dismount the nut push spring plate and pickup mount nut (See Fig.22).
9.Remove the FD screw from the pickup unit (See Fig.22).

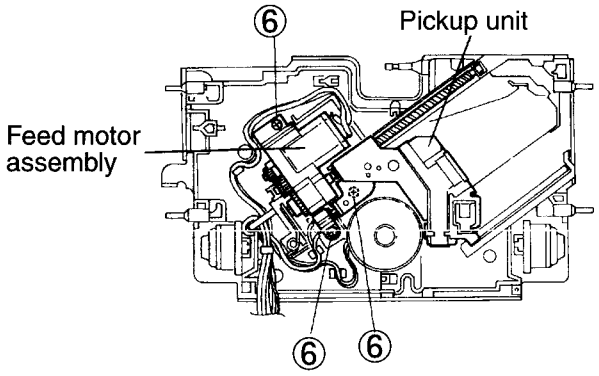


Fig.19

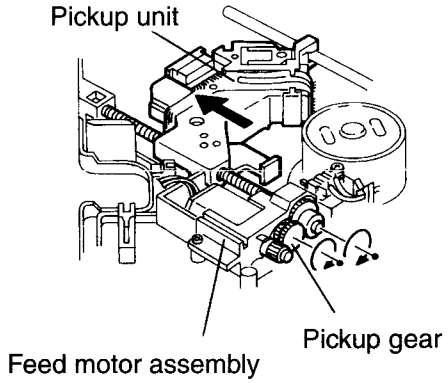


Fig.20

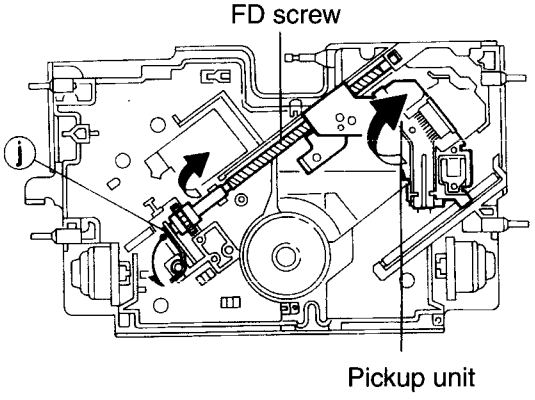


Fig.21

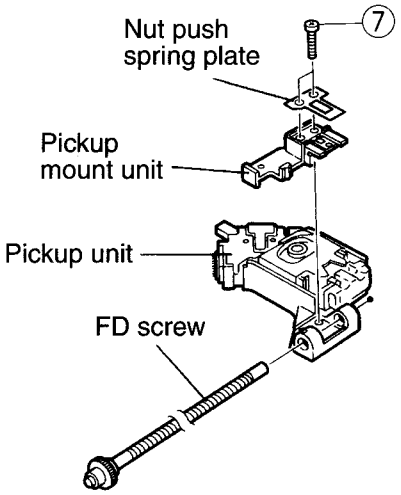


Fig.22

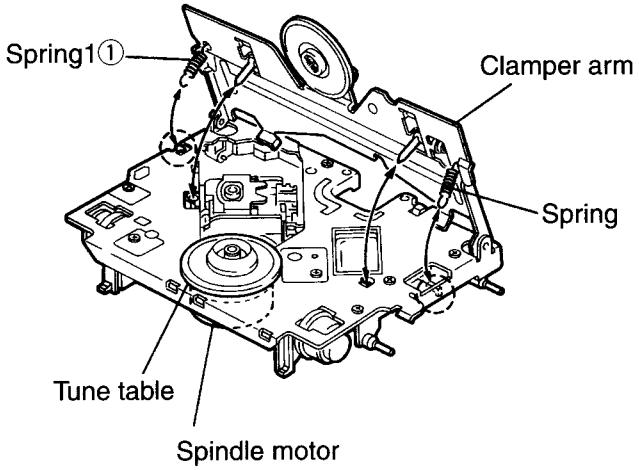


Fig.23

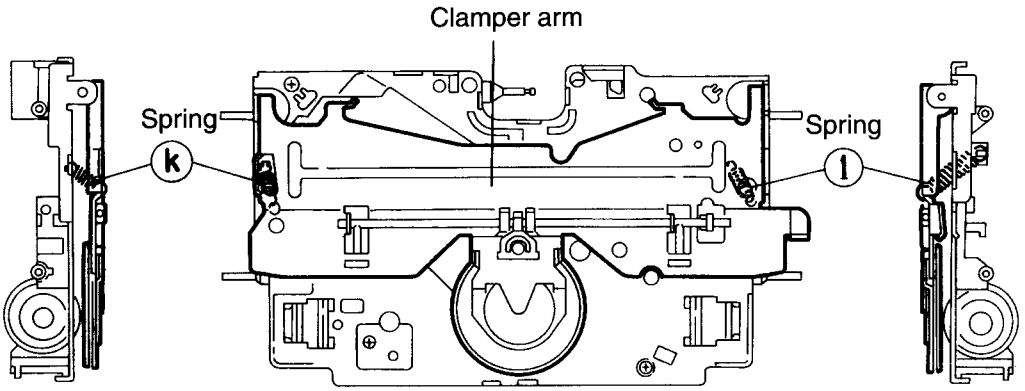


Fig.24-a Fig.24 Fig.24-b

■ Removing the spindle motor

1. After turning back the CD mechanism to initial positlon,remove the two sparrings ⓚ and ⓘ on both the right and left sides of the clamper arm(See Fig.23 and Fig.24).
2. While turning the turntable,remove the two screws ⑧ retaining the spindle motor and take out the spindle motor (See Fig.25).

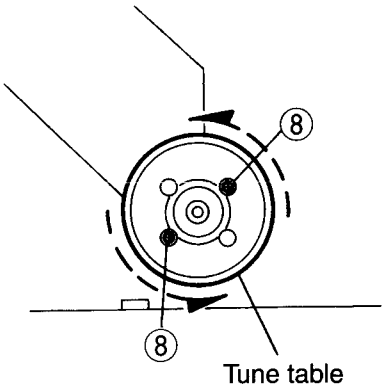


Fig.25

How to connect the extension cord

■ Removing the Top Chassis and the Main Board

<Removing the Top Chassis>

1. Remove the two A screws attaching the bottom cover to the top chassis on the bottom of the body.
2. Remove the two B screws attaching the top chassis on both sides of the body.
3. Remove the two C screws and the D screw attaching the heat sink on the left side of the body.
4. Remove the two E screws and the F screw attaching the top chassis on the back of the body.
5. Remove the two G screws attaching the top chassis on the upper side of the body.
6. Move the top chassis upward, then pull and disconnect the connector of the CD mechanism from connector CN501 and CN502 on the main board. Remove the top chassis from the body.

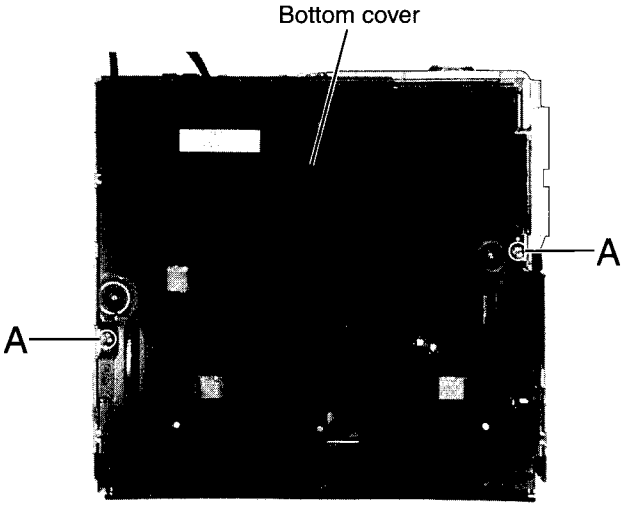


Fig.3

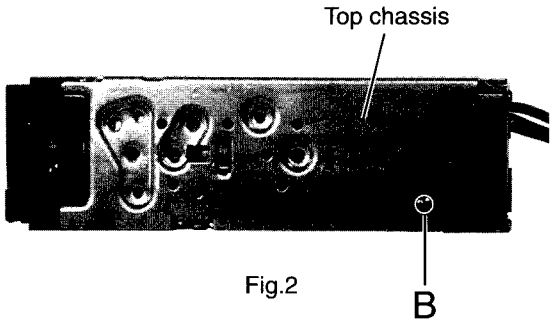


Fig.2

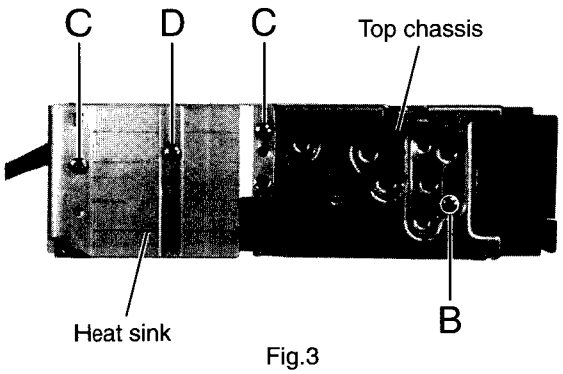


Fig.3

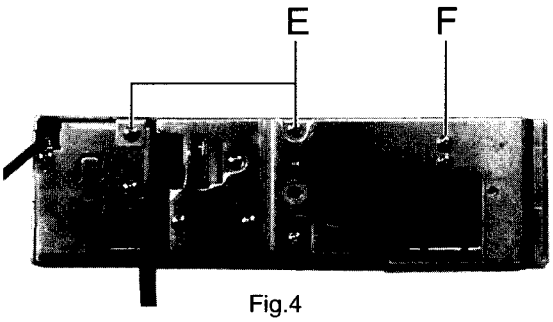


Fig.4

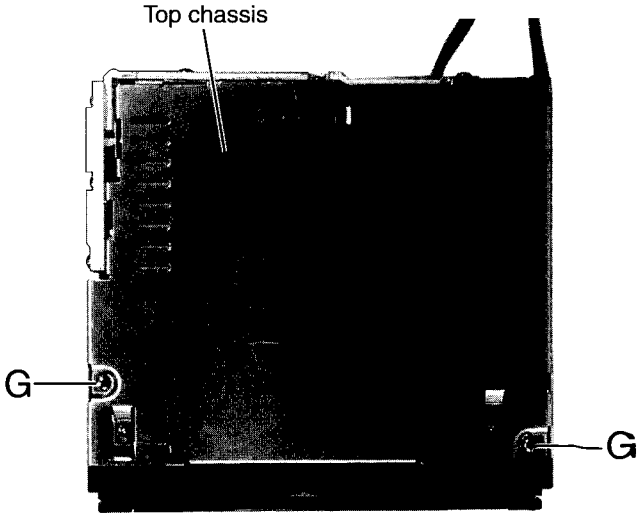


Fig.5

< Removing the Main Board Assembly>

1. Prior to performing the following procedure, remove the top chassis.

2. Disconnect the flexible harness from connector CN701, the card wire from CN702 on the main board and each harness from CN503, CN504 and CN704 respectively.

3. Remove the two H screws attaching the main board assembly to the bottom cover on the upper side of the body.

4. Remove the screw I attaching the rear panel and the bottom cover on the back of the body. Move the main board in the direction of the arrow and release the two joints a. (At this point, the main board can be removed with the rear panel and the rear heat sink.)

5. Remove the J screw and the two K screws attaching the rear heat sink on the back of the body.

6. Remove the two L screws and the M screws attaching the rear panel. Detach the main board assembly from the body.

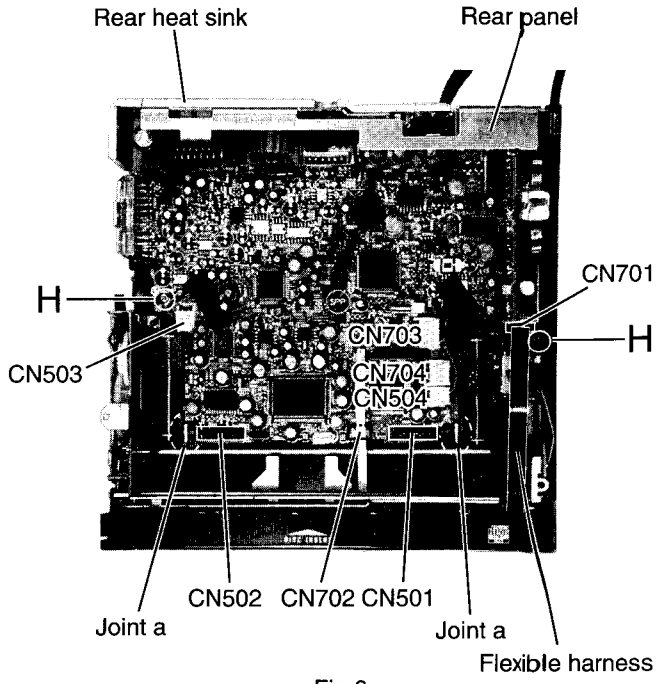


Fig.6

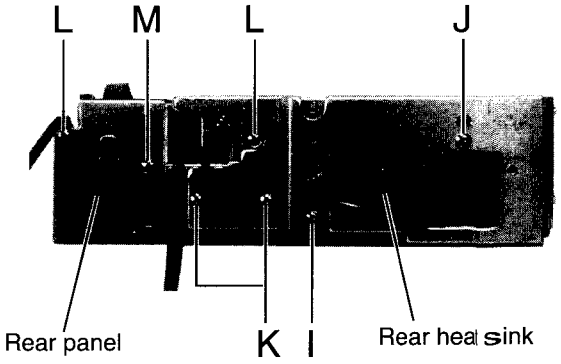


Fig.7

■ Reassembling the Heat Sink

1. Reattach the heat sink to the main board assembly using the screw C and D.

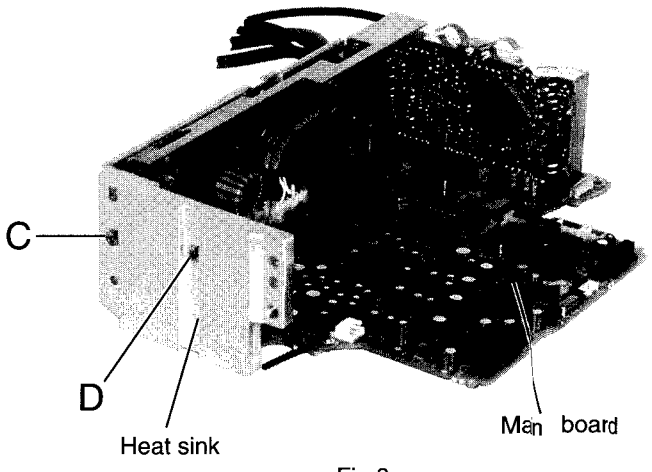


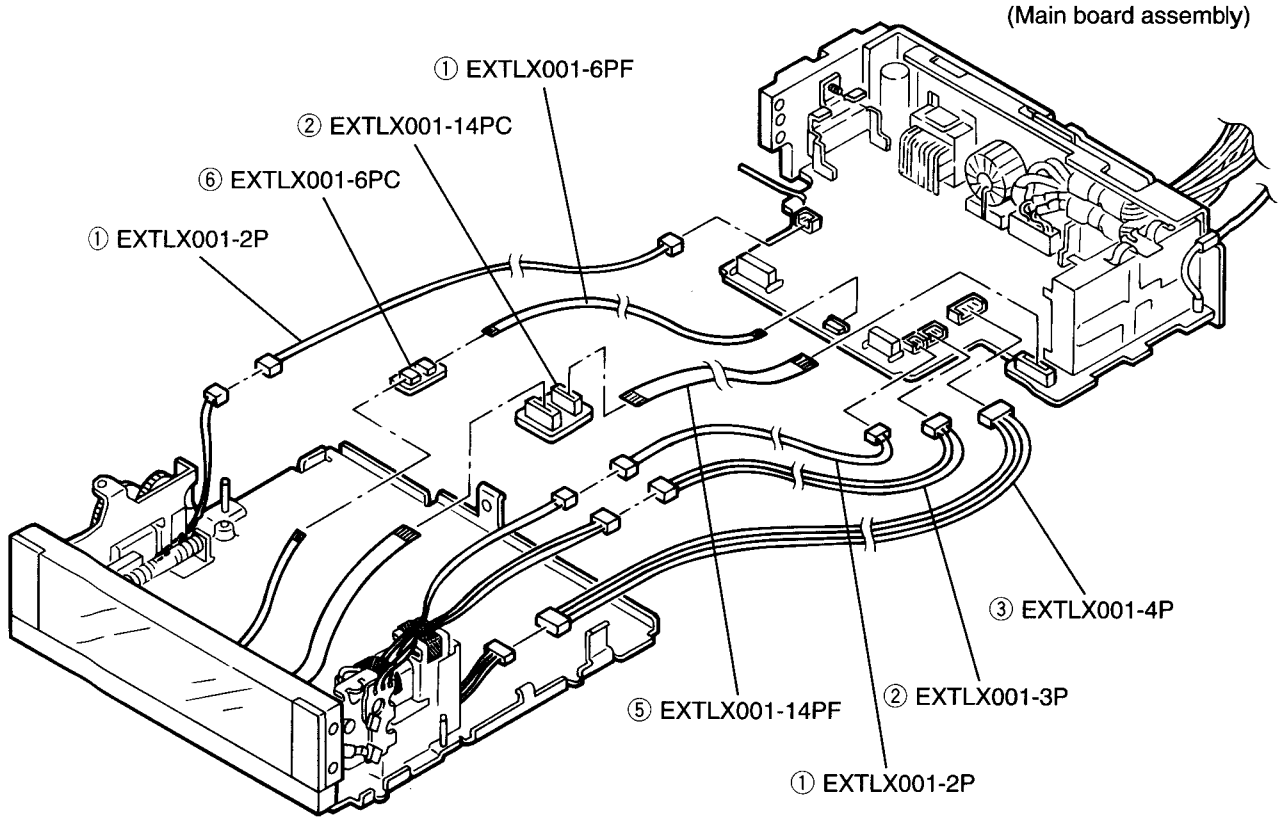
Fig.8

<Connections>

■ Use the extension cords to connect the front panel with the main board

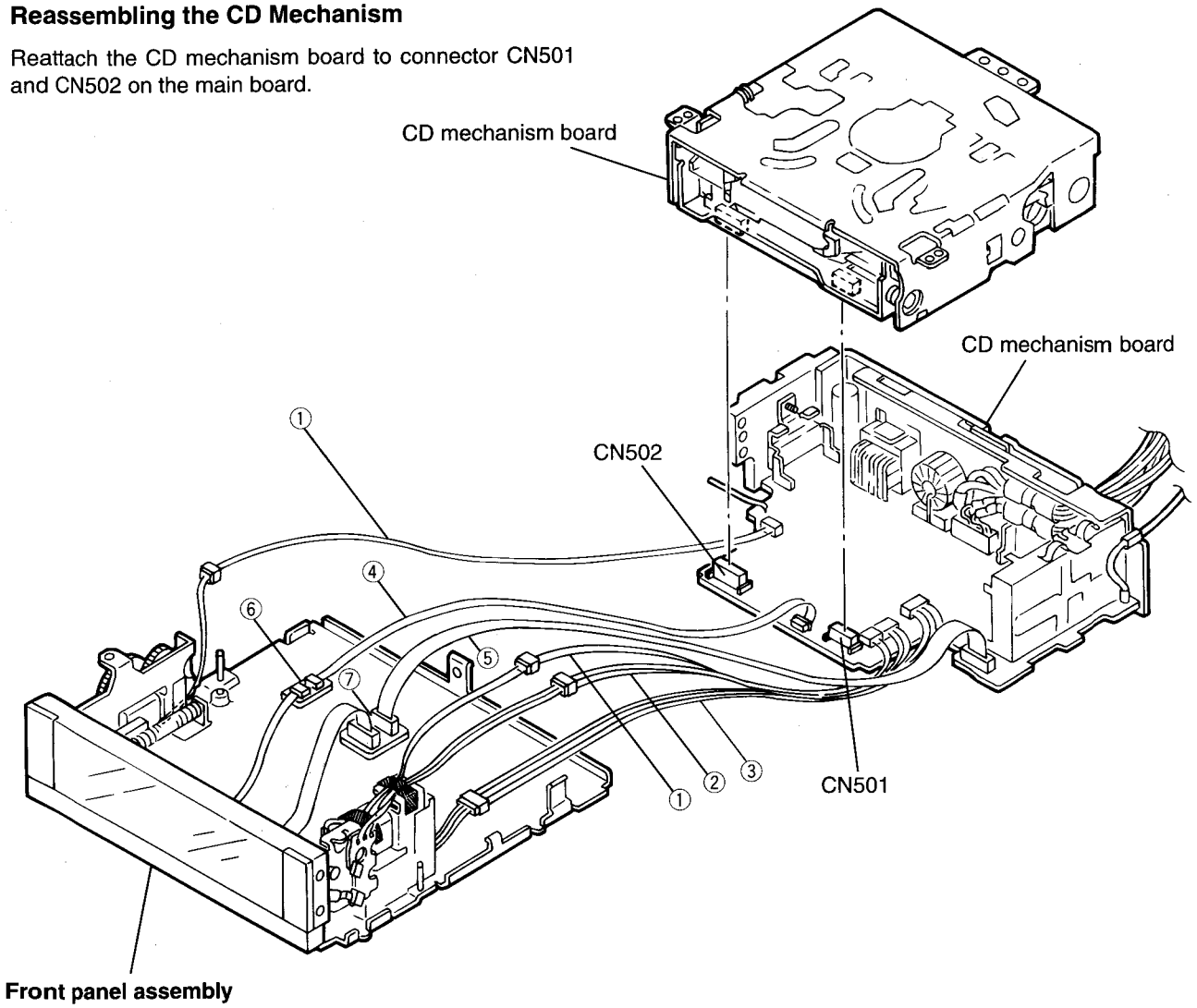
1. Using the 2pin extension cord (EXTLX001-2P), connect the harness of the feed motor (L) assembly with the connector CN503 on the main board.
2. Using the 2pin extension cord (EXTLX001-2P), connect the harness of the feed motor (R) assembly with the connector CN504 on the main board.
3. Using the 3pin extension cord (EXTLX001-3P), connect the harness of the lifter detecting board with the connector CN704 on the main board.
4. Using the 4pin extension board (EXTLX001-4P), connect the harness of the button panel detecting board with the connector CN703 on the main board.
5. Connect the connector EXTLX001-6PC and EXTLX001-14PC with the 6pin flat wire and the 14pin flat wire of the operation switch board respectively.
6. Using the 6pin flat wire (EXTLX001-6PF), connect the 6pin connector with the connector CN702 on the main board.

   Using the 14pin flat wire (EXTLX001-14PF), connect the 14pin connector with the connector CN701 on the main board.



■ Reassembling the CD Mechanism

1. Reattach the CD mechanism board to connector CN501 and CN502 on the main board.



■ Extension cord list for KD-LX1/ KD-LX3

EXTLX001-KIT: kit including the following eight extension cords

No.	Serial No.	Quantity	Description
①	EXTLX001-2P	2	2pin, 30cm extension cord
②	EXTLX001-3P	1	3pin, 30cm extension cord
③	EXTLX001-4P	1	4pin, 30cm extension cord
④	EXTLX001-6PF	1	6pin, 30cm flat wire
⑤	EXTLX001-14PF	1	14pin, 30cm flat wire
⑥	EXTLX001-6PC	1	6pin × 2, interlocking connector
⑦	EXTLX001-14PC	1	14pin × 2, interlocking connector

Besides the above kit, we offer the conventional extension cords for CD mechanism which are not essential to operation check or service. The mechanism should be directly connected to the board using the above kit.

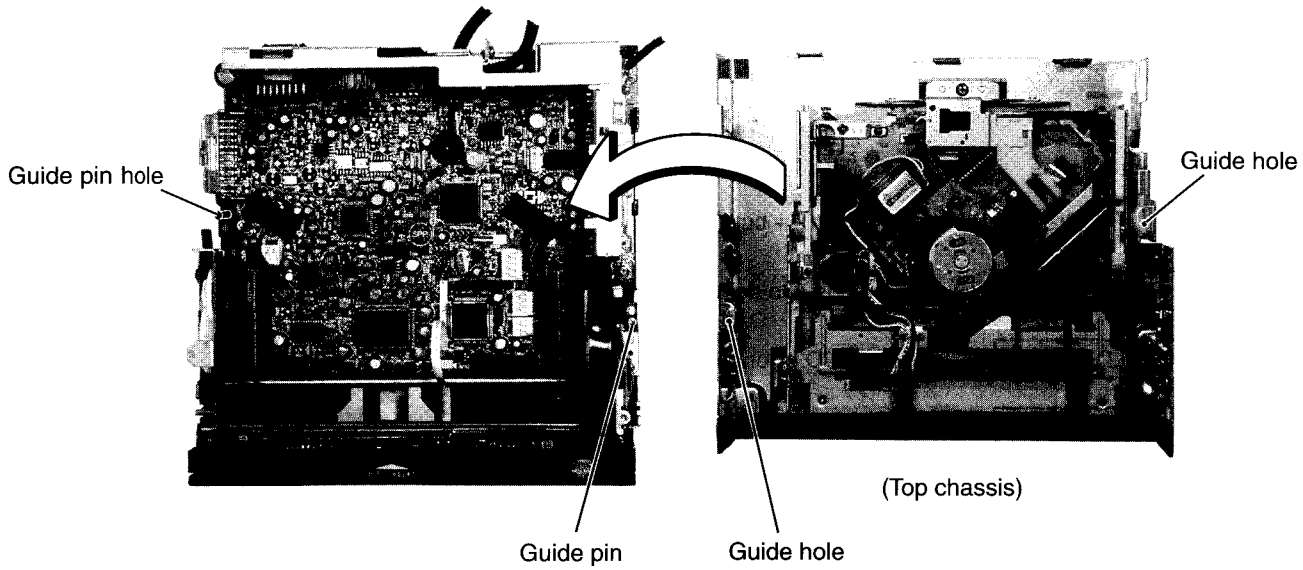
①	EXTGS003-14PX	14pin, 10cm extension cord (double) use only one.
②	EXTGS003-12P	12pin, 10cm extension cord

■ Reassembly

1. Perform reassembly by reversing the removing process of "Removal of Main Parts".

CAUTION 1: Prior to reattaching the heat sink, make sure to reattach the top chassis.

CAUTION 2: To reattach the top chassis, fit the left and right guide pins of the bottom cover to the guide holes of the top cover
(If the guide pins are not fitted correctly, it may cause damage to the connector CN501 and CN502 on the main board).

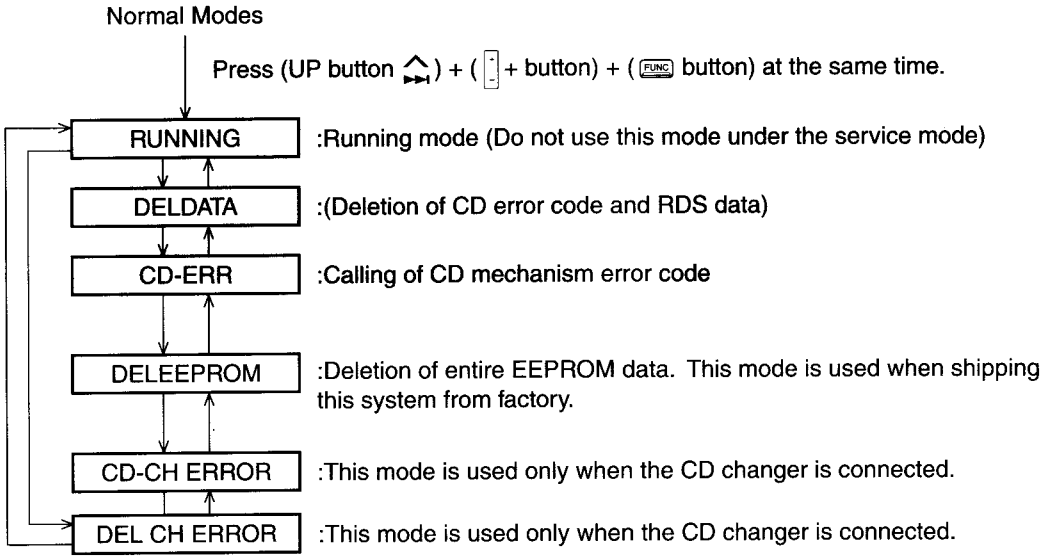


Functions of the mechanism under the service mode

With the three error modes stored in maximum in the internal memory of the mechanism in the body of this system, it is possible under the service mode to call the contents of errors according to the following steps when any error has occurred.

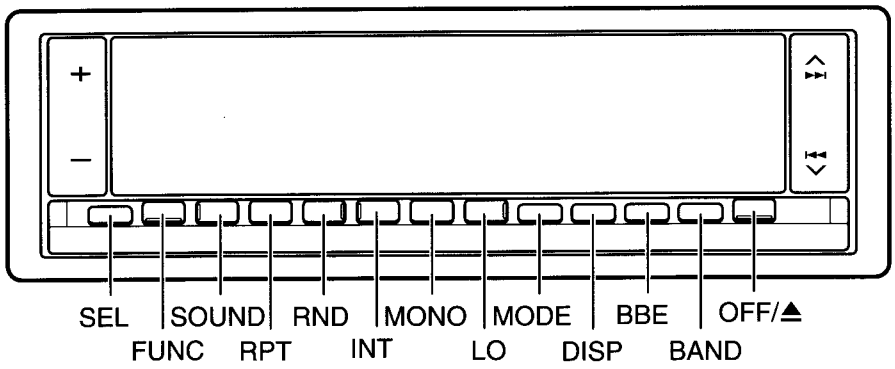
Press the three buttons (UP button ⏭) + (+ button) + (Func button FUNC). Then it is possible to select the following service modes. After changing over to the service mode, press the UP button ⏭ and DOWN button ⏮ to change the mode. For executing the respective service modes, press the SELL button.

With the service mode ② , it is possible to call the error codes of the mechanism:


Normal Modes
Press (UP button ⏭) + (+ button) + (FUNC button) at the same time.
RUNNING
:Running mode (Do not use this mode under the service mode)
DELDATA
:(Deletion of CD error code and RDS data)
CD-ERR
:Calling of CD mechanism error code
DELEEPROM
:Deletion of entire EEPROM data. This mode is used when shipping this system from factory.
CD-CH ERROR
:This mode is used only when the CD changer is connected.
DEL CH ERROR
:This mode is used only when the CD changer is connected.

Data stored in EEPROM

① RDS data
② CD mechanism error code
③ Station name (to be input by user)
④ DISC name (to be input by user)
⑤ AUX input name (Applicable only to KD-LX3)
* Any data ③~⑤ above should not be deleted.



1. Display of mechanism error

Occurrence conditions	Description	Error codes
Disc loading error	① SW4 is not turned off. ② SW3 is not turned on.	09 0011 09 0013
Eject error	① SW3 is not turned off.	01 0021
Error during standby for loading	① In case SW2 has been positioned to "L" before starting loading during waiting for 15 sec.	80 0031

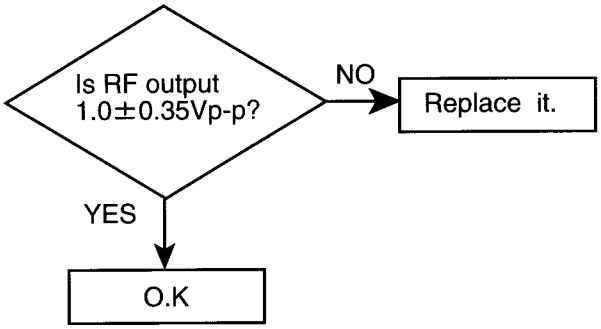
2. Display of CD error

Occurrence conditions	Description	Error codes
Pickup feeding error ① Inner peripheral feeding error (10 sec.) ② Outer peripheral feeding error (10 sec.)	The pickup cannot be returned to the inner peripheral, and the REST switch is not turned off. The pickup cannot be returned to the outer peripheral, and the REST switch is not turned off.	04 0051 04 0052
Focus search error In the case of focusing error after 3-way focus searching	In case the focus cannot be searched by one set of focus searching (3-way focus searching) after disc change and focus shock, judge that the focus searching system is in error.	81 0053
Tracking balance adjusting error In the case of time-over (1 sec.) of timer	In case tracking balance cannot be adjusted even after elapse of 1 sec. following execution of the adjusting command (TBA)	82 0054
TOC area searching error In the case of time-over (10 sec.) of timer Reading error In the case of time-over (30 sec.) of timer	In case TOC area searching is not ended even after elapse of 10 sec. In case reading is not ended even after elapse of 30 sec. during TOC reading action.	82 0055 84 0059
1st tracking access error In the case of time-over (10 sec.) of timer	In case the first tracking access is not ended even after elapse of 10 sec. following completion of TOC reading.	80 0060
Last tracking access error In the case of time-over (10 sec.) of timer	In case the last tracking access is not ended even after elapse of 10 sec. following completion of first tracking under the RUNNING mode.	80 0061
Q code reading error In the case of time-over (0.6 sec.) of timer	In case the Q code cannot be read for 0.6 sec. during playing of TOC program area	80 0062
TEXT data reading error	In case all TEXT data cannot be read.	80 0063

Maintenance of laser pickup

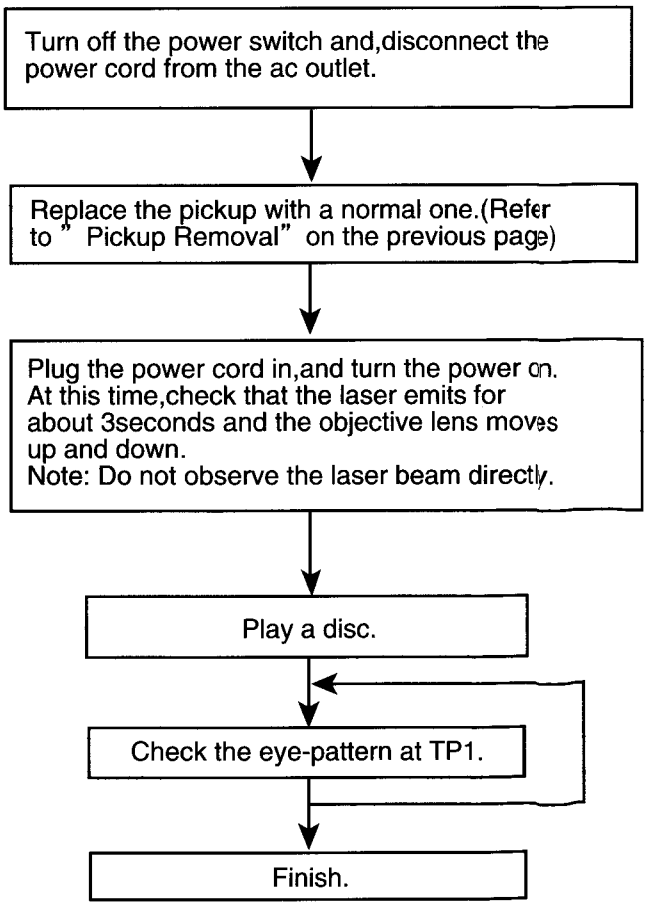
(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.
(1) The level of RF output (EFM output:amplitude of eye pattern) will be low.



(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

Replacement of laser pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to " Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on.
At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

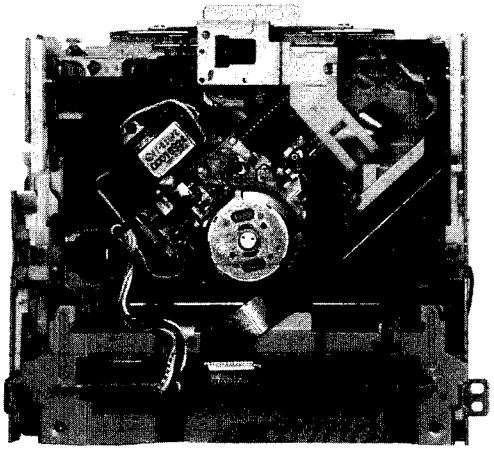
Caution : Replacing the pick-up

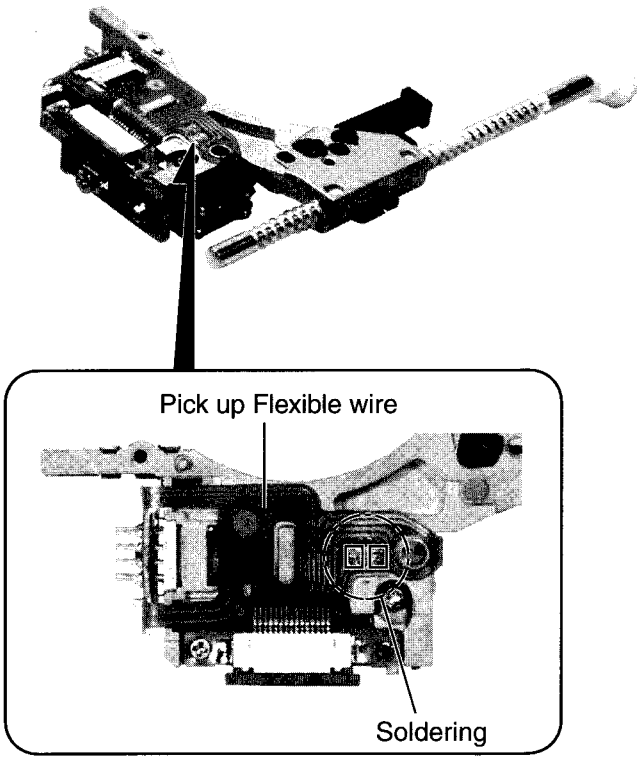
To Prevent Damage to the Laser diode
Static electricity destroys the Laser Diode. Always take countermeasures to prevent static electricity damage when performing repairs around the Laser Pick-up.

1. Do not touch the area around the laser Diode or the Actuator.
2. Do not check the Laser diode with a tester or other device (the Laser Diode can be broken quite easily).
3. Short-Circuit the Laser Pick-up
Solder the Land in the center of the flexible cable of the Laser Diode and help prevent damage from static electricity.

Caution:
solder rejection or cuts a pattern with nipper at Shortstop point after short circuiting with clip with terminal face of flexible cable in the static electricity countermeasures soldering iron application that is not done.
And the rejection back inserts it in connector immediately and do not touch terminal side of connector either.

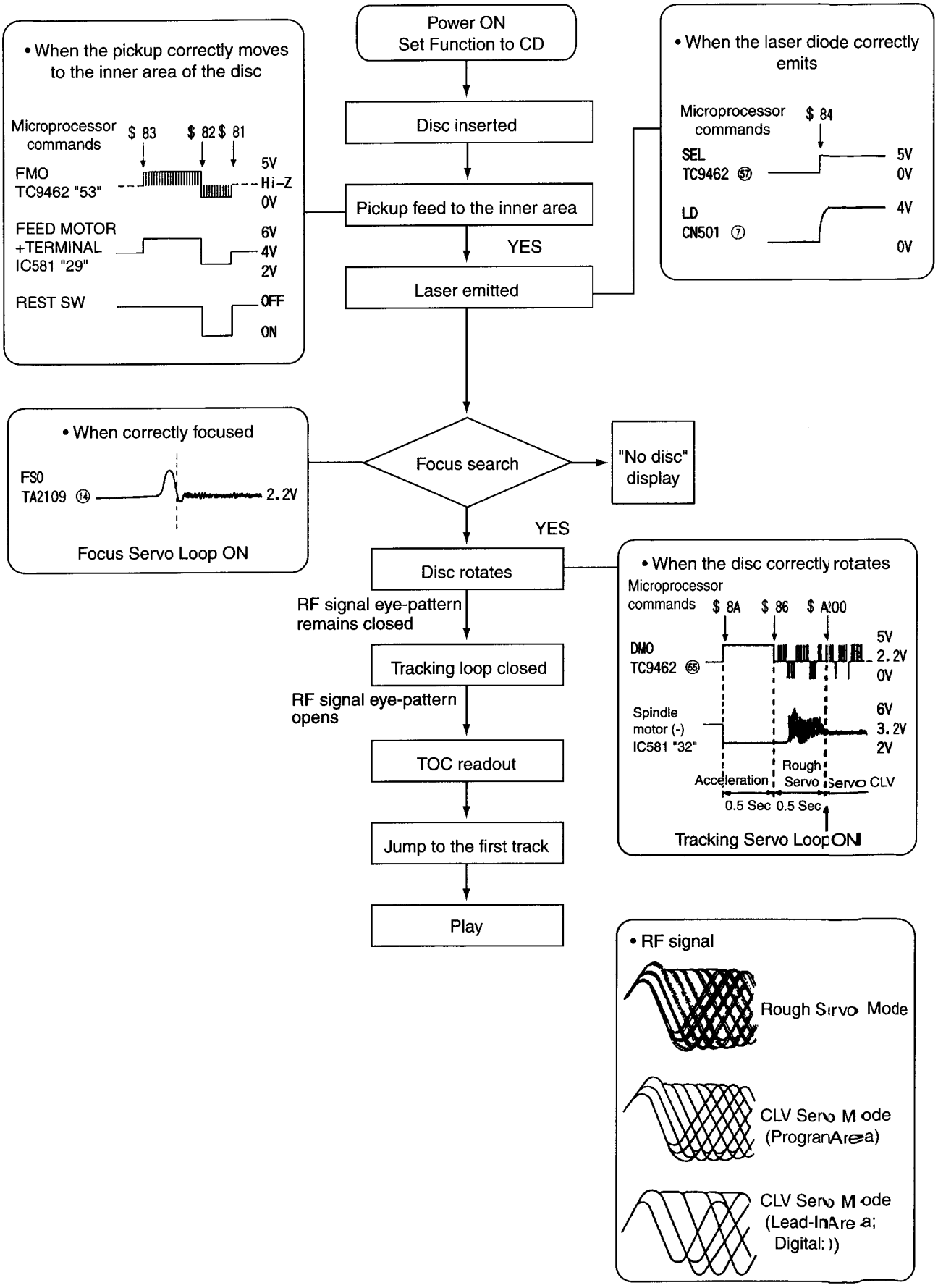
Recommendation
Soldering iron
HAKKO ESD countermeasures product



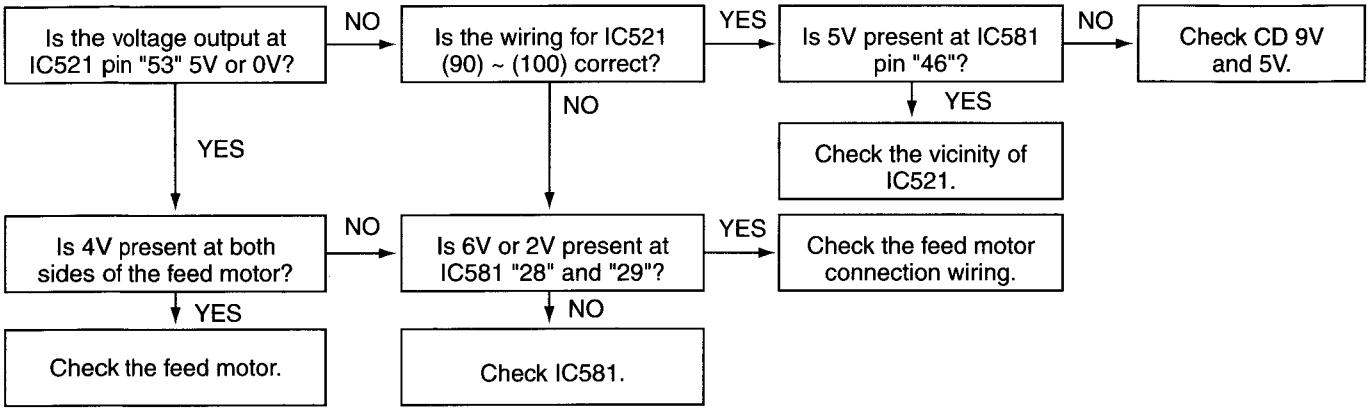


Caution:
Do not forget to remove the soldered Laser Diode short-circuit after finishing repair, and leave the circuit open.

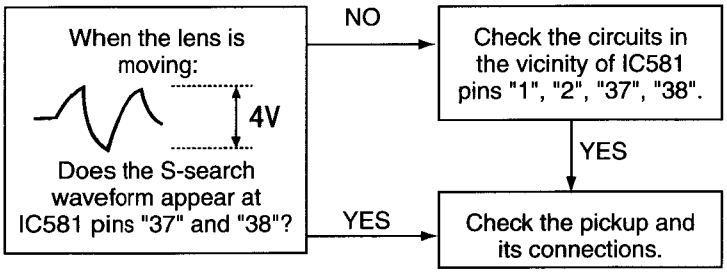
Flow of functional operation until TOC read



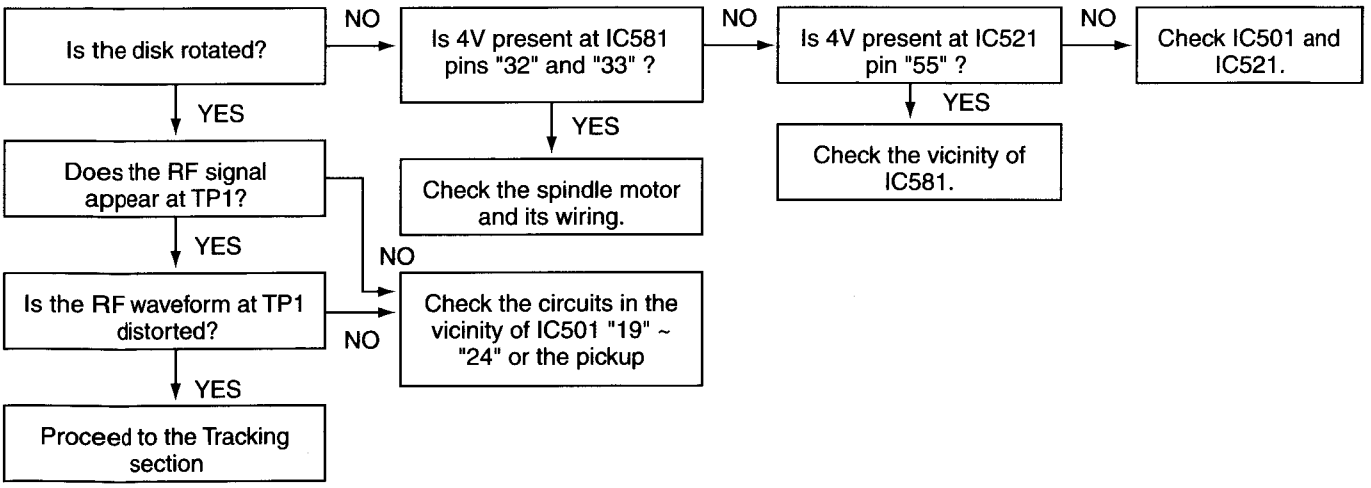
■Feed Section


Is the voltage output at IC521 pin "53" 5V or 0V?
NO
Is the wiring for IC521 (90) ~ (100) correct?
YES
Is 5V present at IC581 pin "46"?
NO
Check CD 9V and 5V.
YES
Check the vicinity of IC521.
NO
YES
Is 4V present at both sides of the feed motor?
NO
Is 6V or 2V present at IC581 "28" and "29"?
YES
Check the feed motor connection wiring.
YES
NO
Check the feed motor.
Check IC581.

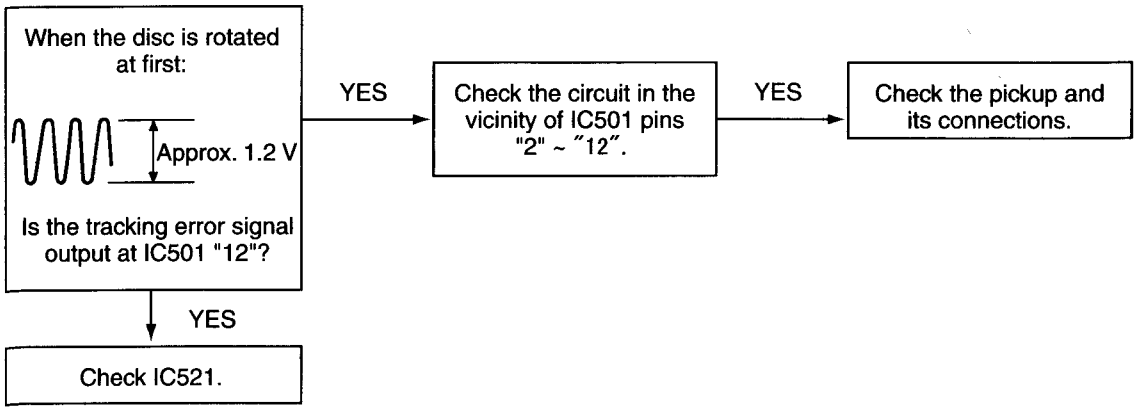
■Focus Section


When the lens is moving:
4V
Does the S-search waveform appear at IC581 pins "37" and "38"?
NO
Check the circuits in the vicinity of IC581 pins "1", "2", "37", "38".
YES
YES
Check the pickup and its connections.

■Spindle Section

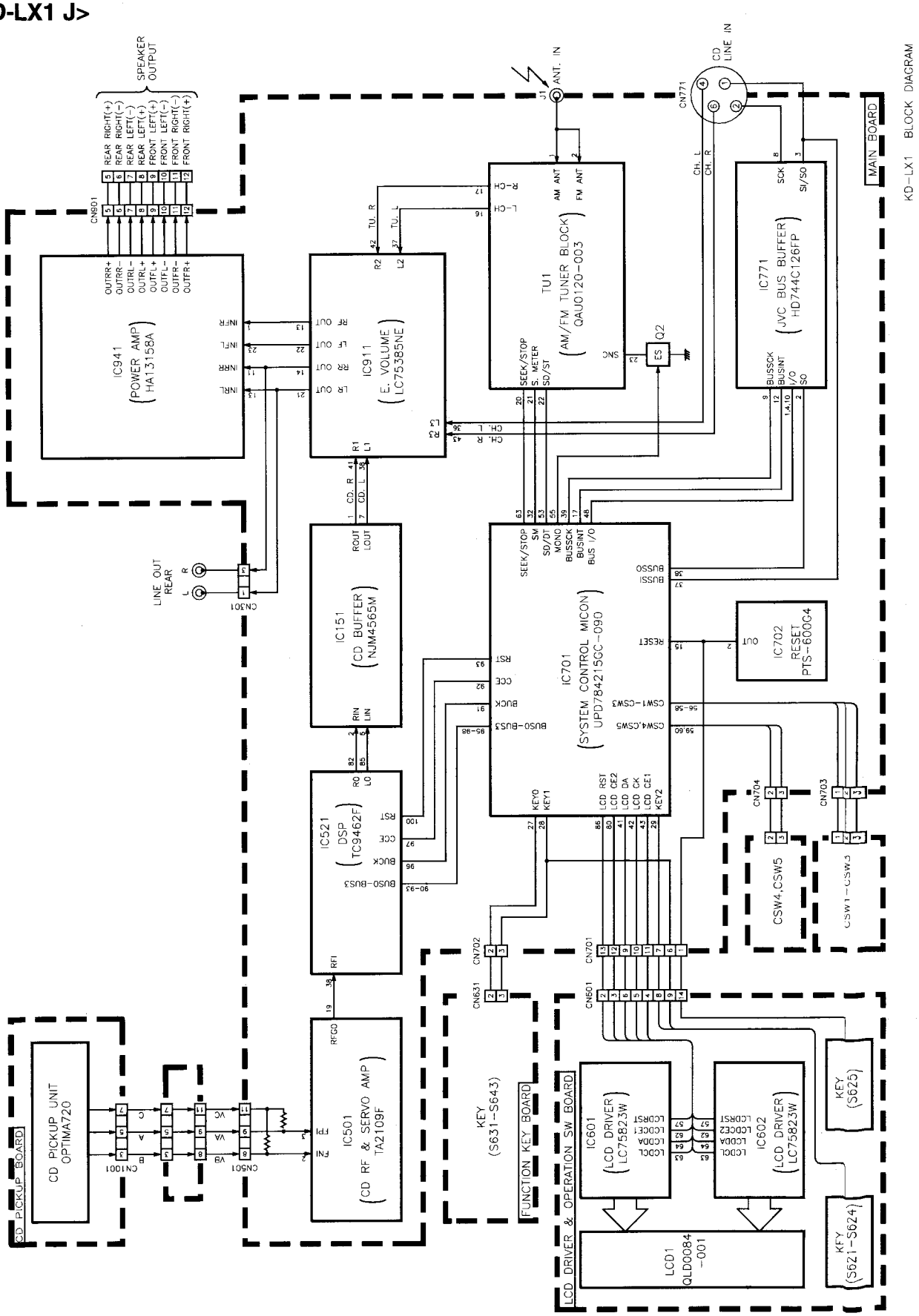

Is the disk rotated?
NO
Is 4V present at IC581 pins "32" and "33" ?
NO
Is 4V present at IC521 pin "55" ?
NO
Check IC501 and IC521.
YES
YES
Check the vicinity of IC581.
YES
Does the RF signal appear at TP1?
Check the spindle motor and its wiring.
YES
NO
Is the RF waveform at TP1 distorted?
NO
Check the circuits in the vicinity of IC501 "19" ~ "24" or the pickup
YES
Proceed to the Tracking section

■Tracking Section

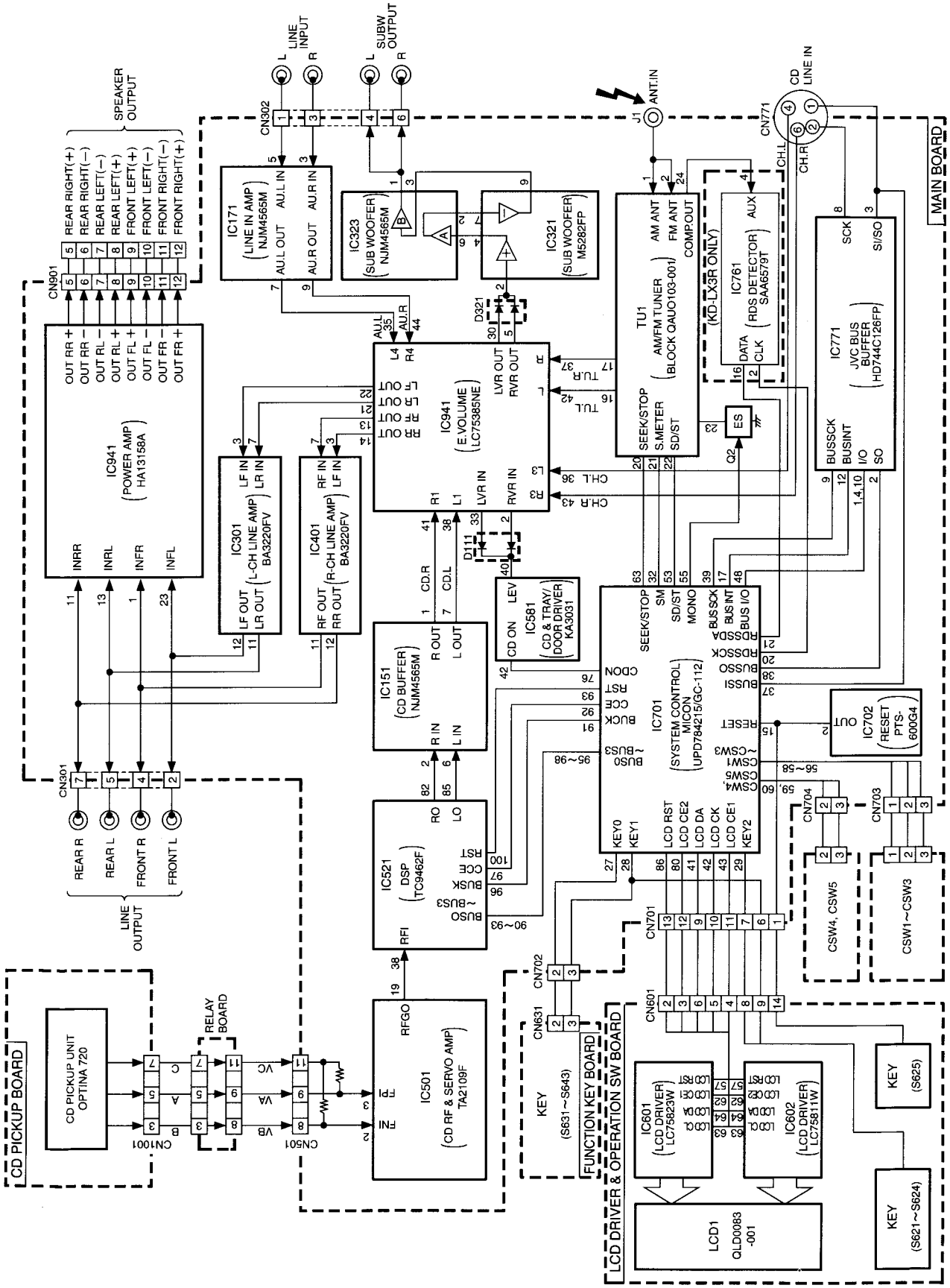

When the disc is rotated at first:
Approx. 1.2 V
Is the tracking error signal output at IC501 "12"?
YES
Check the circuit in the vicinity of IC501 pins "2" ~ "12".
YES
Check the pickup and its connections.
YES
Check IC521.

Block diagrams

<KD-LX1 J>



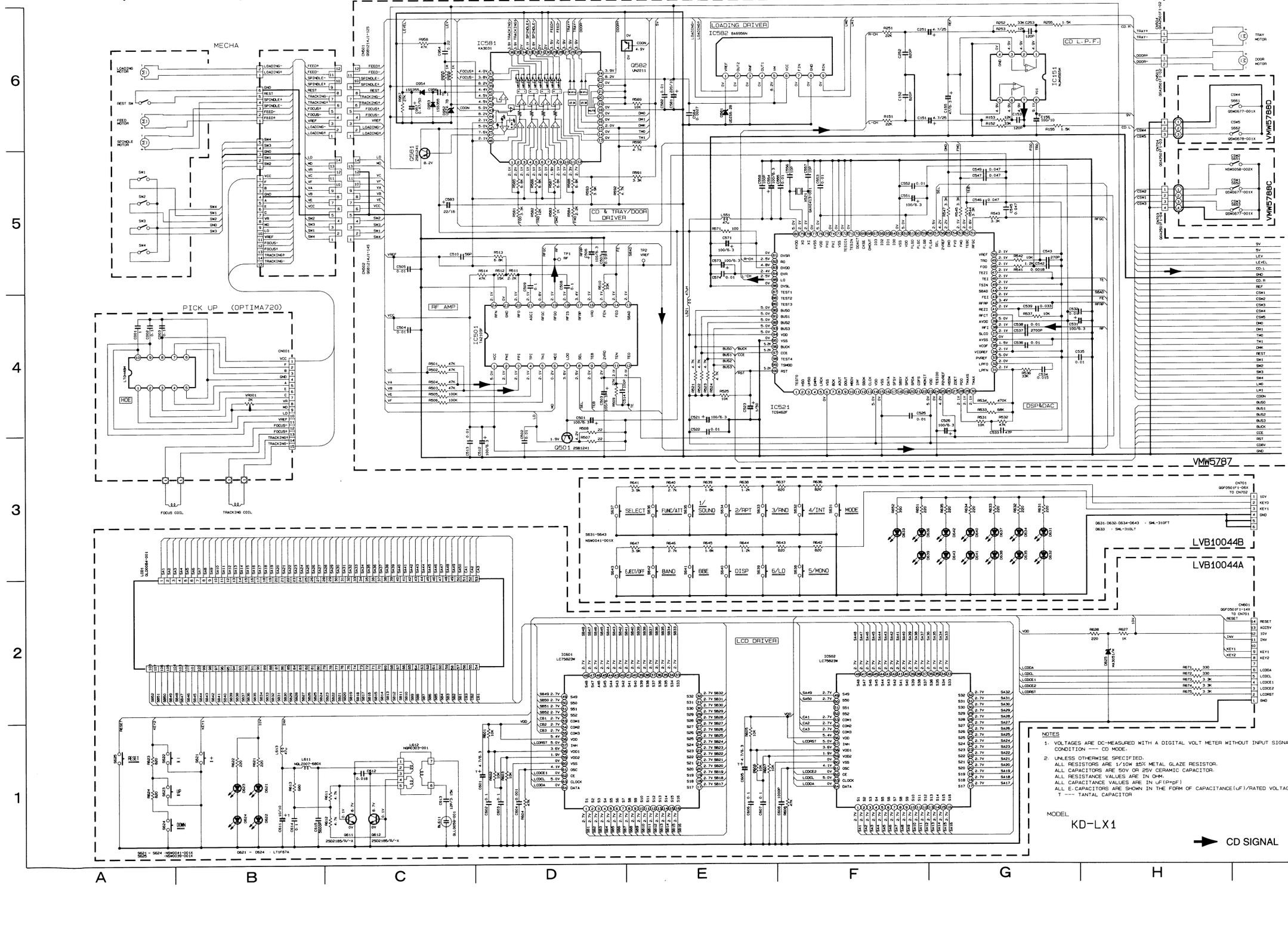
<KD-LX3 J/KD-LX3R E>



<<MEMO>>

Standard schematic diagrams

■ CD Circuit (KD-LX1 J ONLY)



KD-LX1
KD-LX3 KD-LX3R

■ Receiver & Power Amplifier Circuit (KD-LX1 J ONLY)

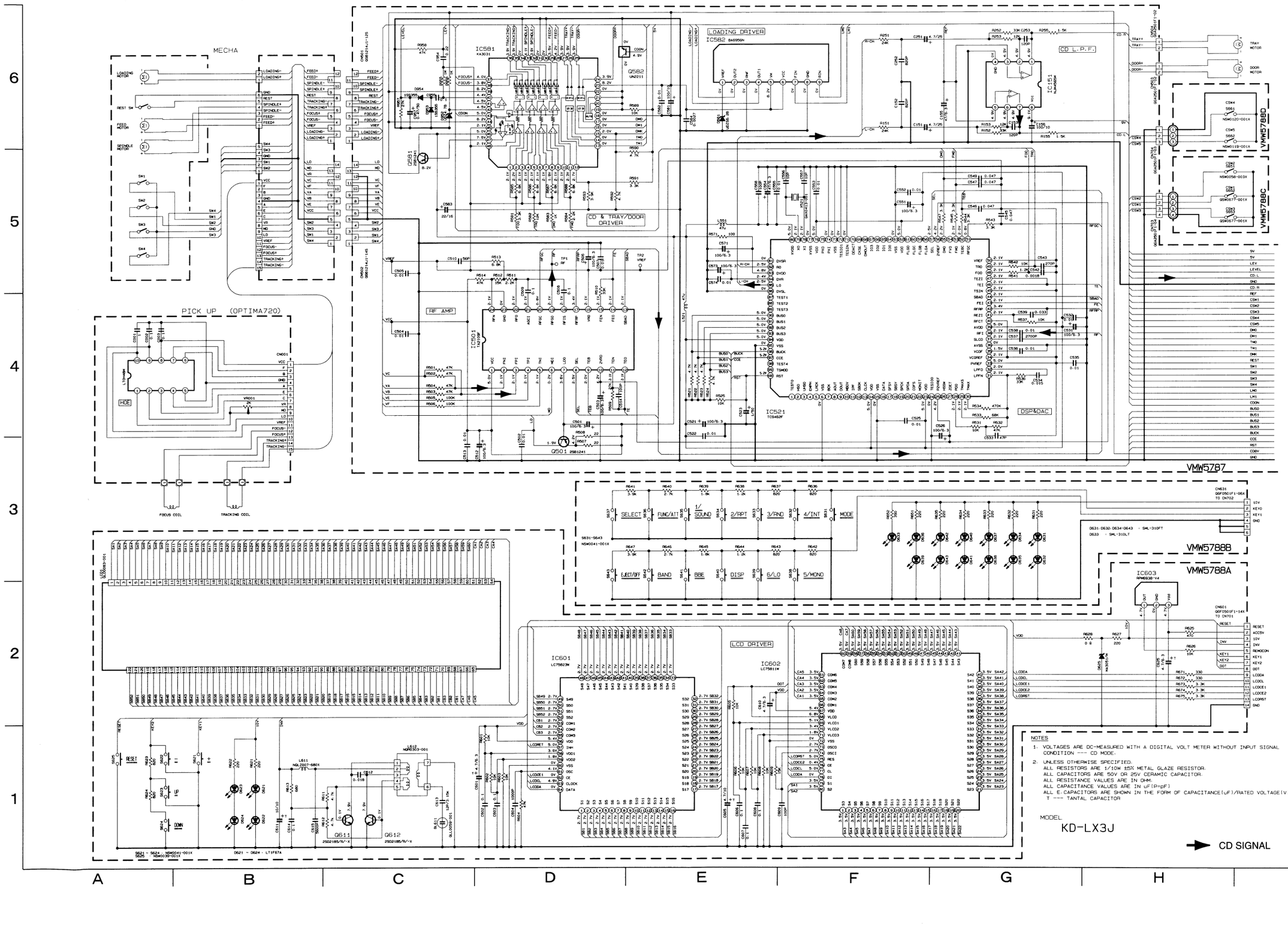
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION---FM MODE. ▭ AM MODE. ( ) CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
T --- TANTAL CAPACITOR

FM/AM TUNER
TU1 GAU0120-003
FM/AM SW.
PLL
IC21 TB2118F
CPU
IC701 UPD78401SGC-090
EPROM
IC703 24LC16BT-1
RESET
IC702 PST600M
BUZZER
E. VOLUME
IC911 LC75385NE
BBE
IC941 HA13156A
POWER AMP.
REGULATOR
IC961 BA4901A-V3
JVC BUS
CRUISE
IC821 NJM2100M
IC771 HD74HC126FP
IC951 NJM2904M
MODEL
KD-LX1

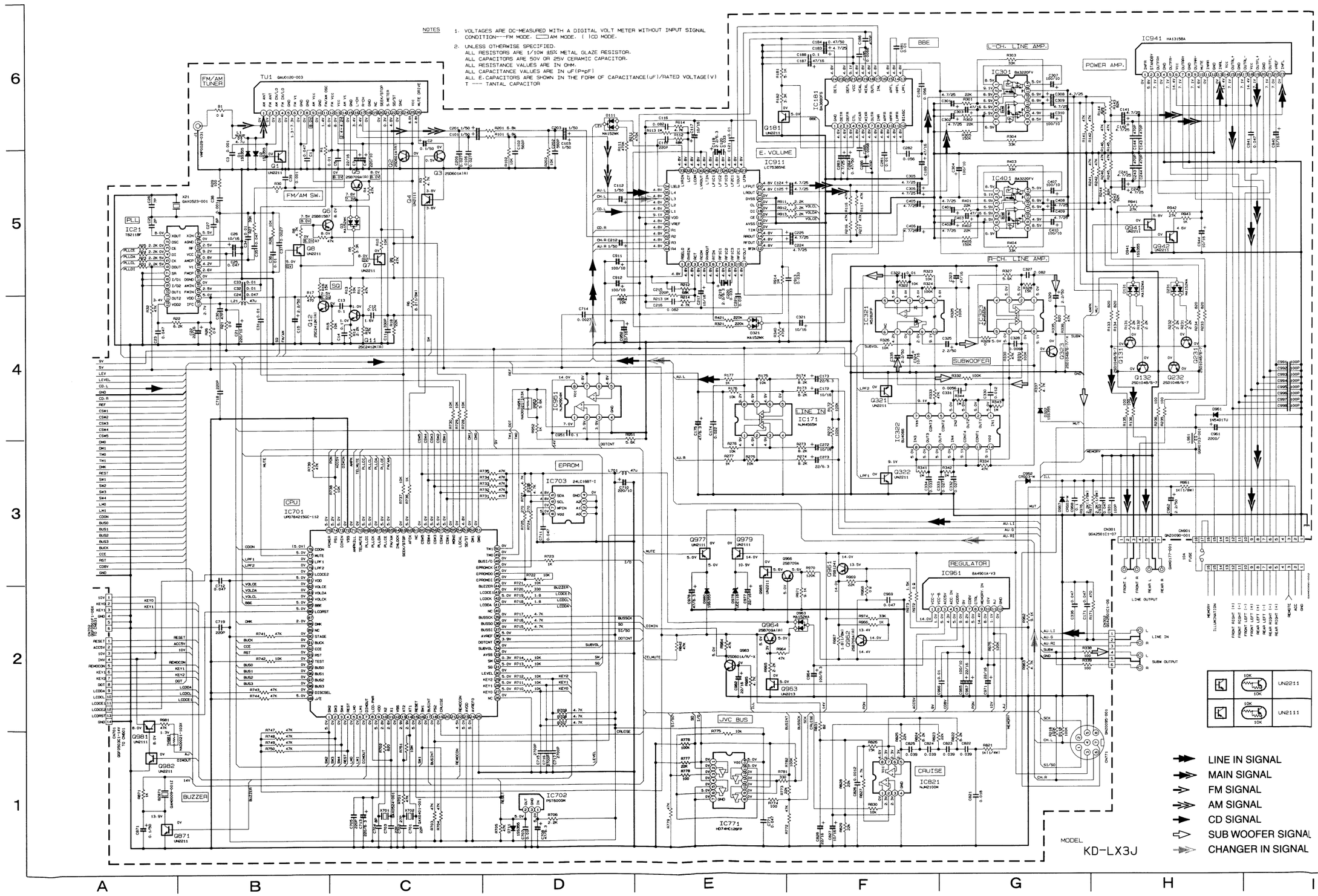
CD SIGNAL
FM SIGNAL
AM SIGNAL

	10K / 10K	UN2211
	10K / 10K	UN2111

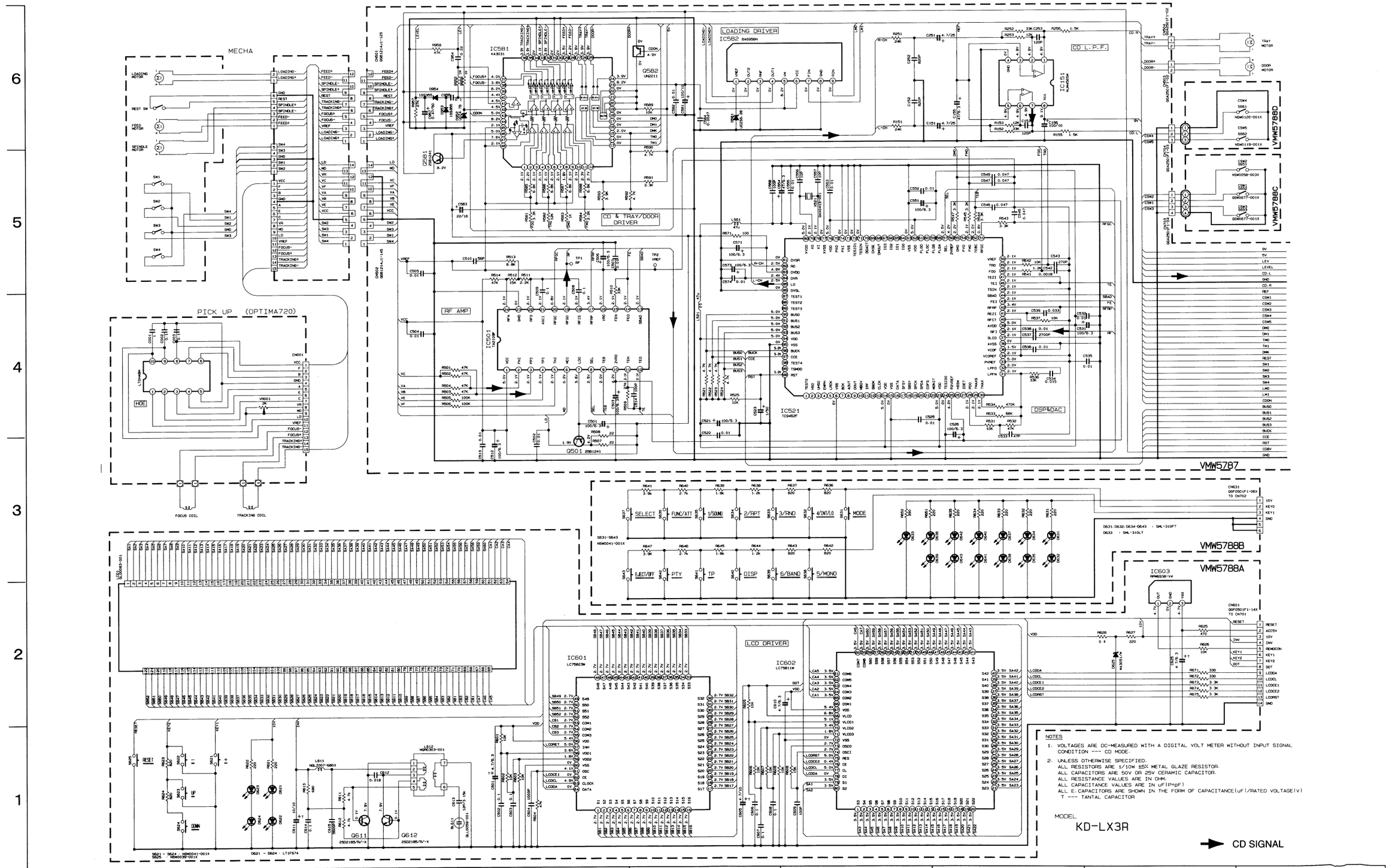
■ CD Circuit (KD-LX3 J ONLY)



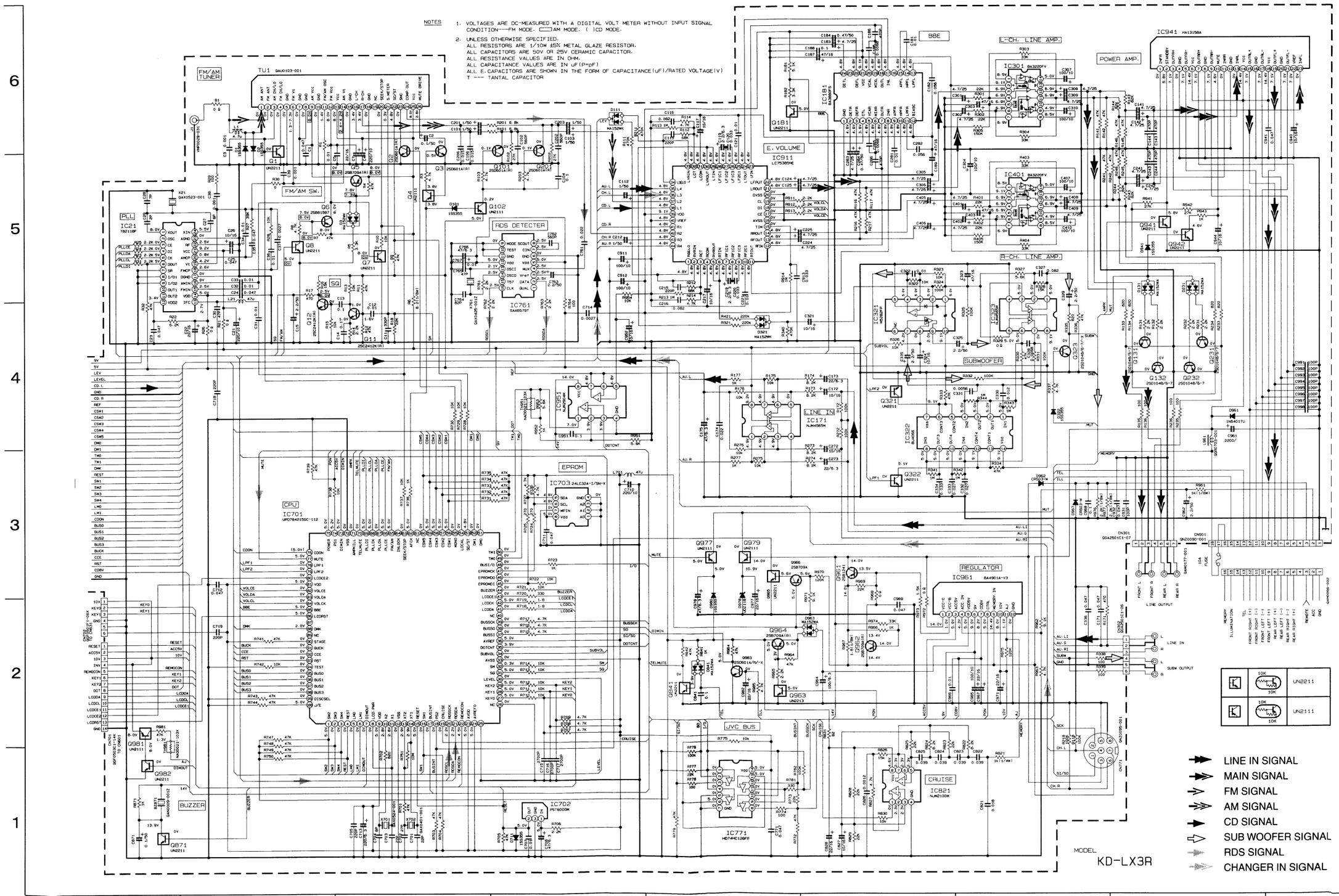
■ Receiver & Power Amplifier Circuit (KD-LX3 J ONLY)



■ CD Circuit (KD-LX3R E ONLY)



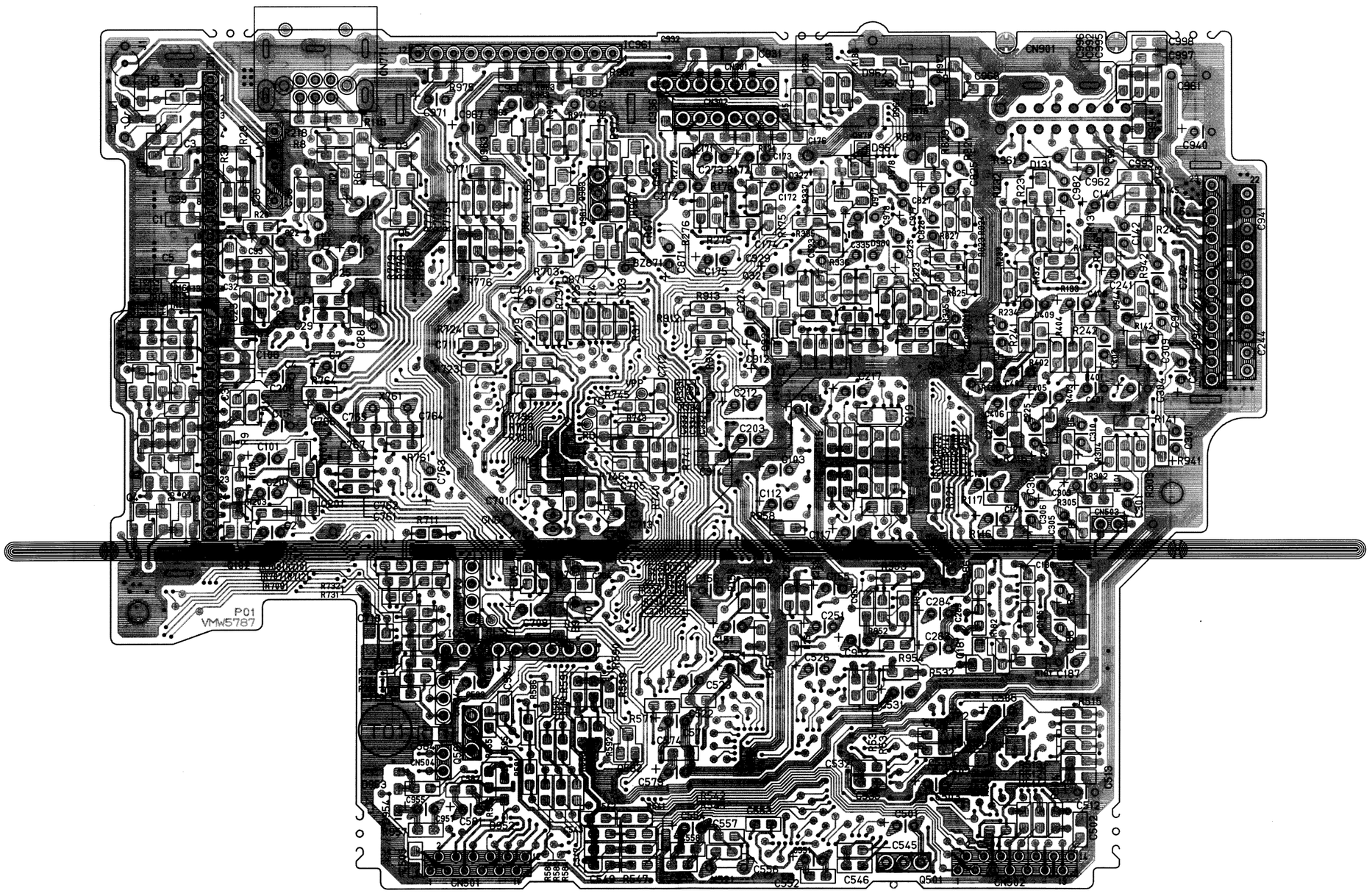
■ Receiver & Power Amplifier Circuit (KD-LX3R E ONLY)



Printed circuit boards

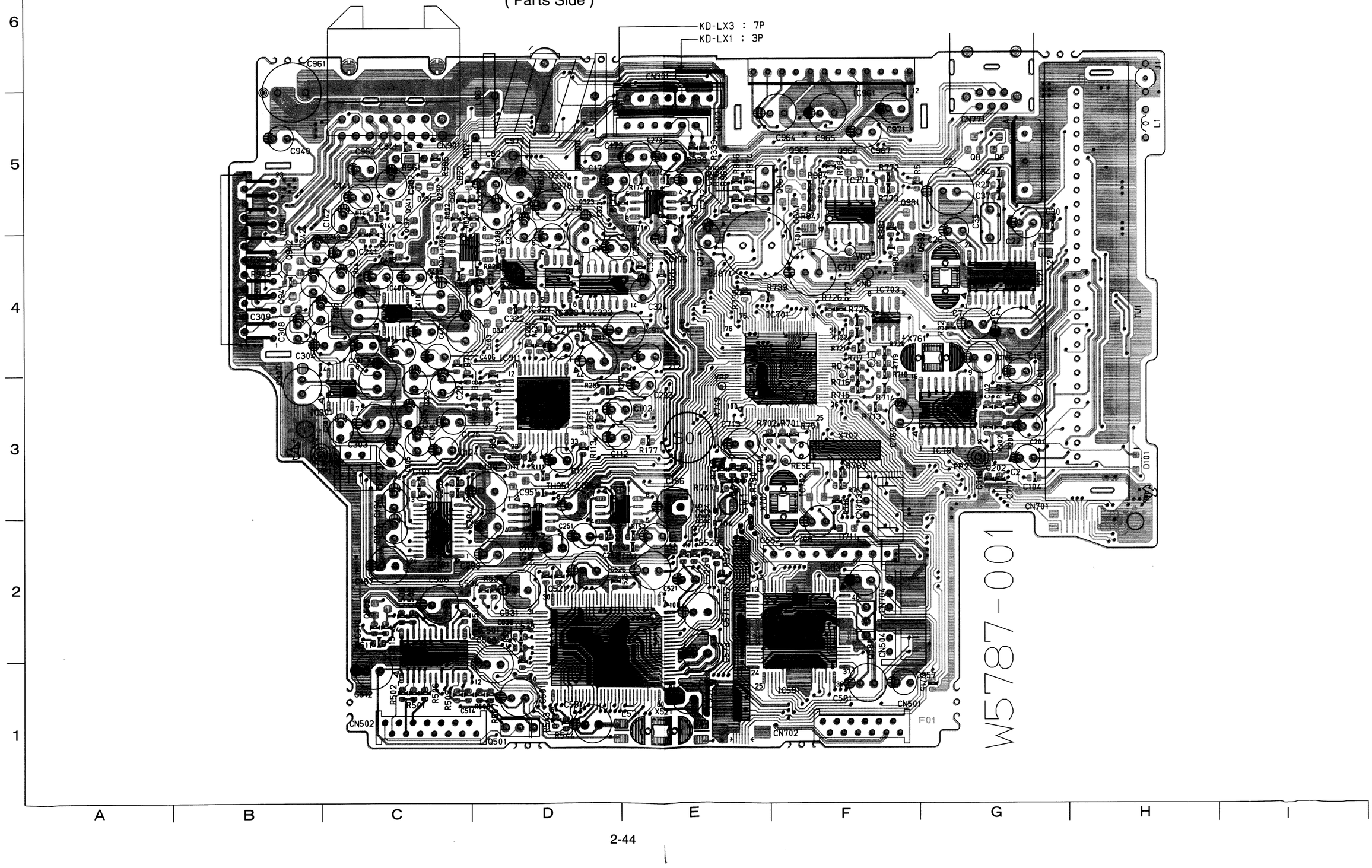
■ **Main Board (for KD-LX1 J) : Block No. 01**

(Solder Side)



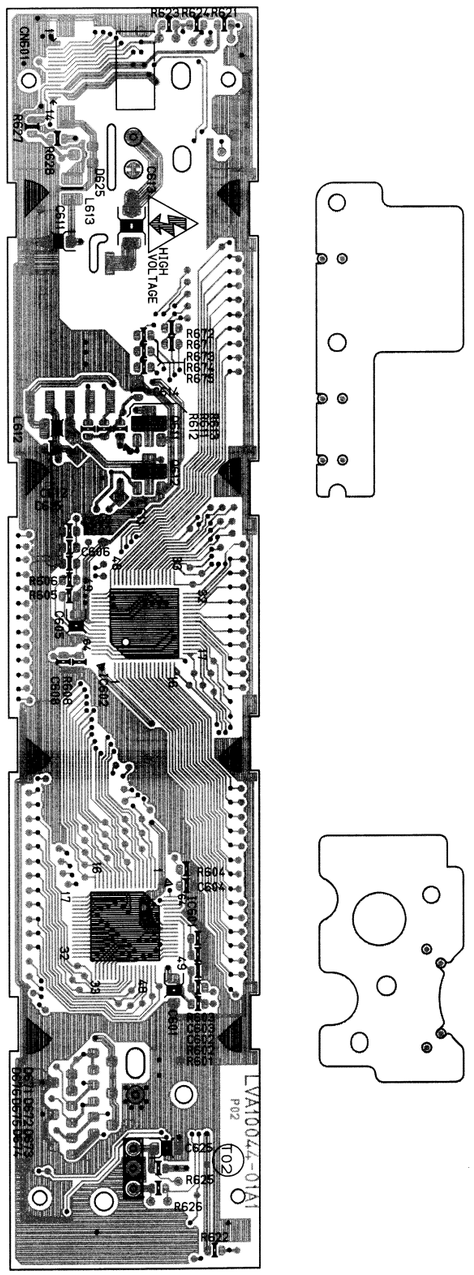
■ Main Board (for KD-LX1 J)

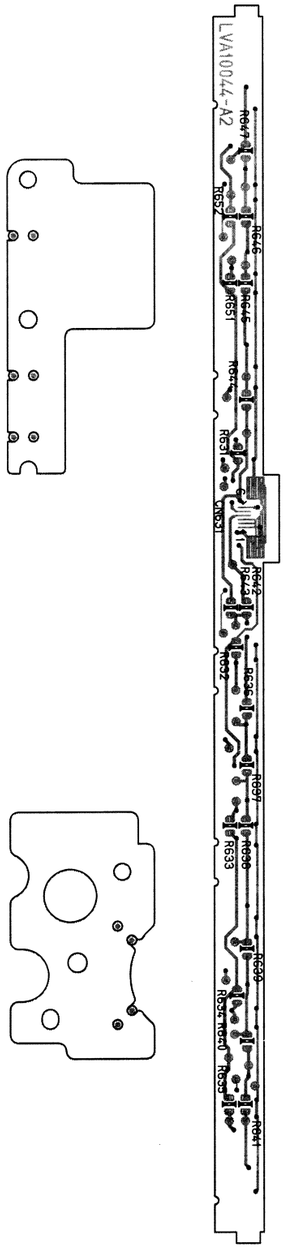
(Parts Side)



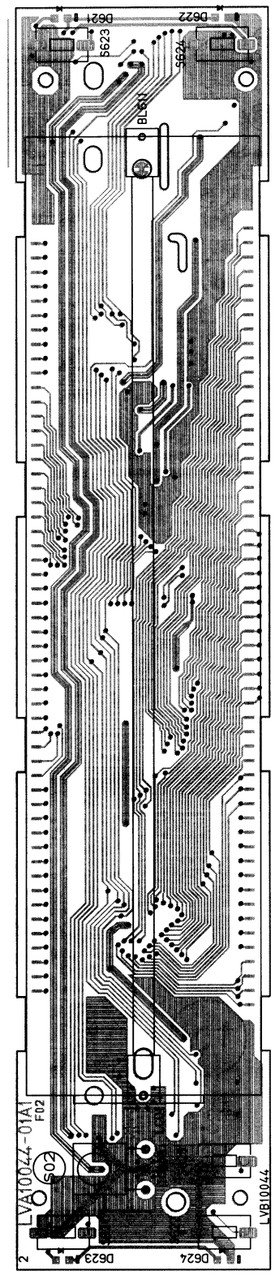
■ Switch Board (for KD-LX1 J) : Block No. 03

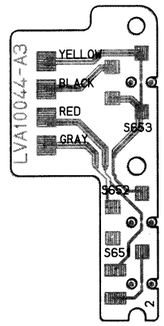
(Solder Side)

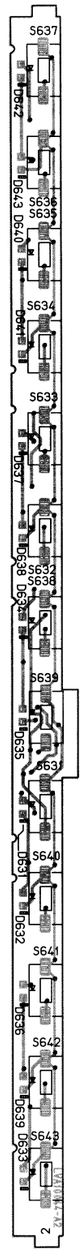


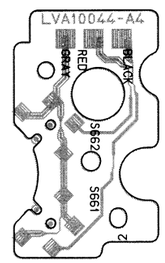


(Parts Side)





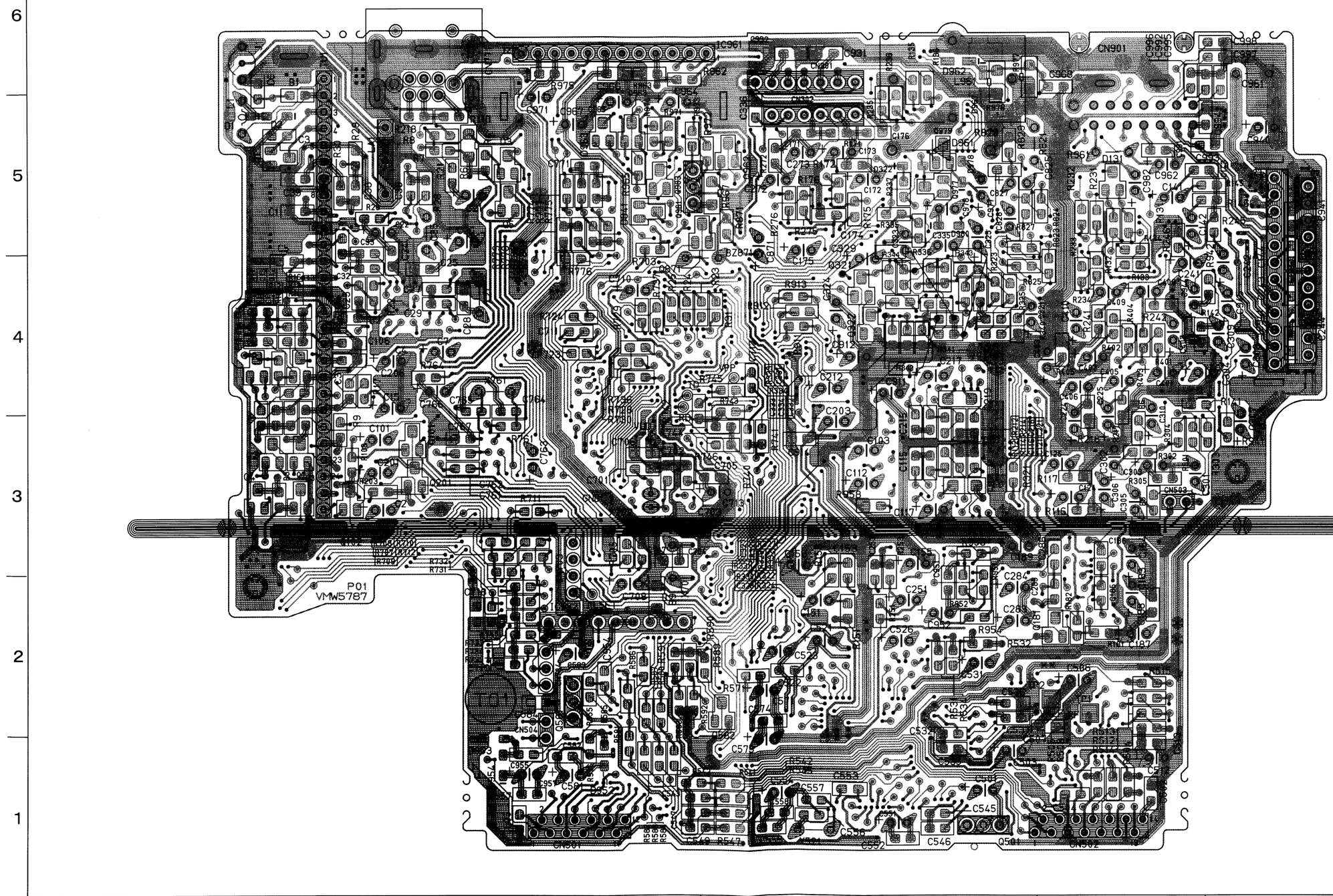




KD-LX1
KD-LX3 KD-LX3R

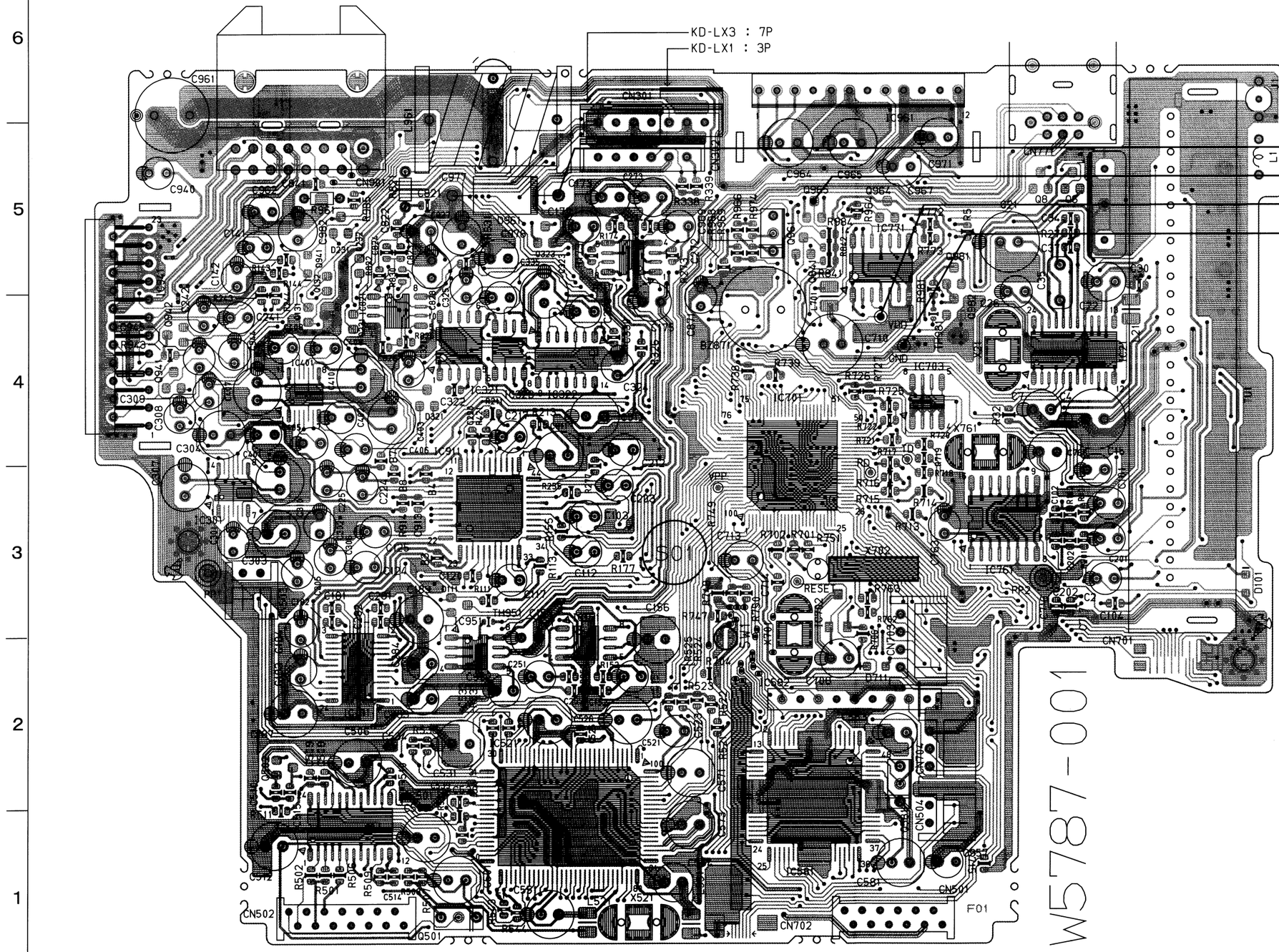
■ **Main Board (KD-LX3 J & KD-LX3R E) : Block No. 02**

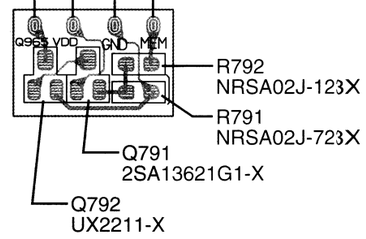
(Solder Side)



■ Main Board (for KD-LX3 J/KD-LX3R E)

(Parts Side)



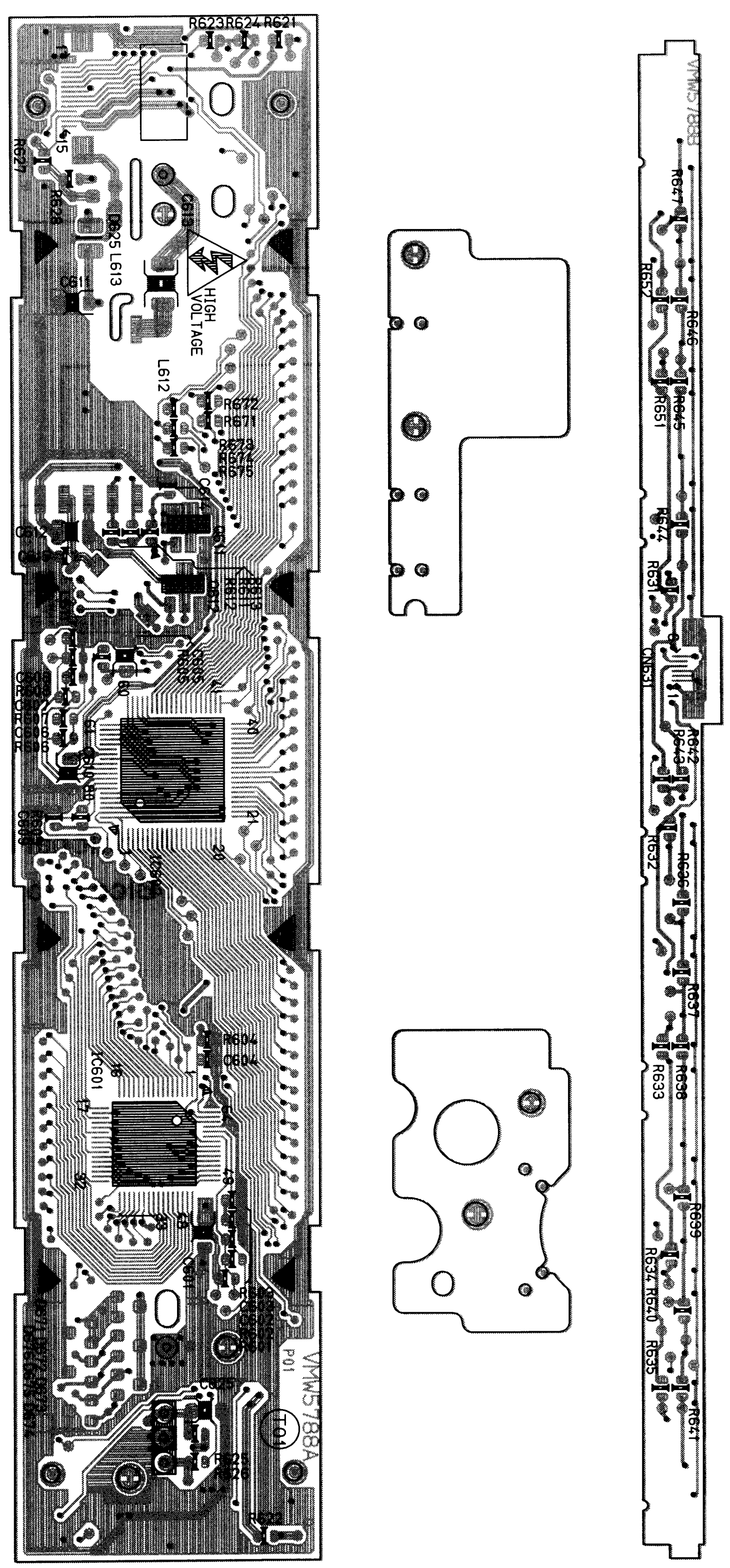


Additional Board
: Block No. 05

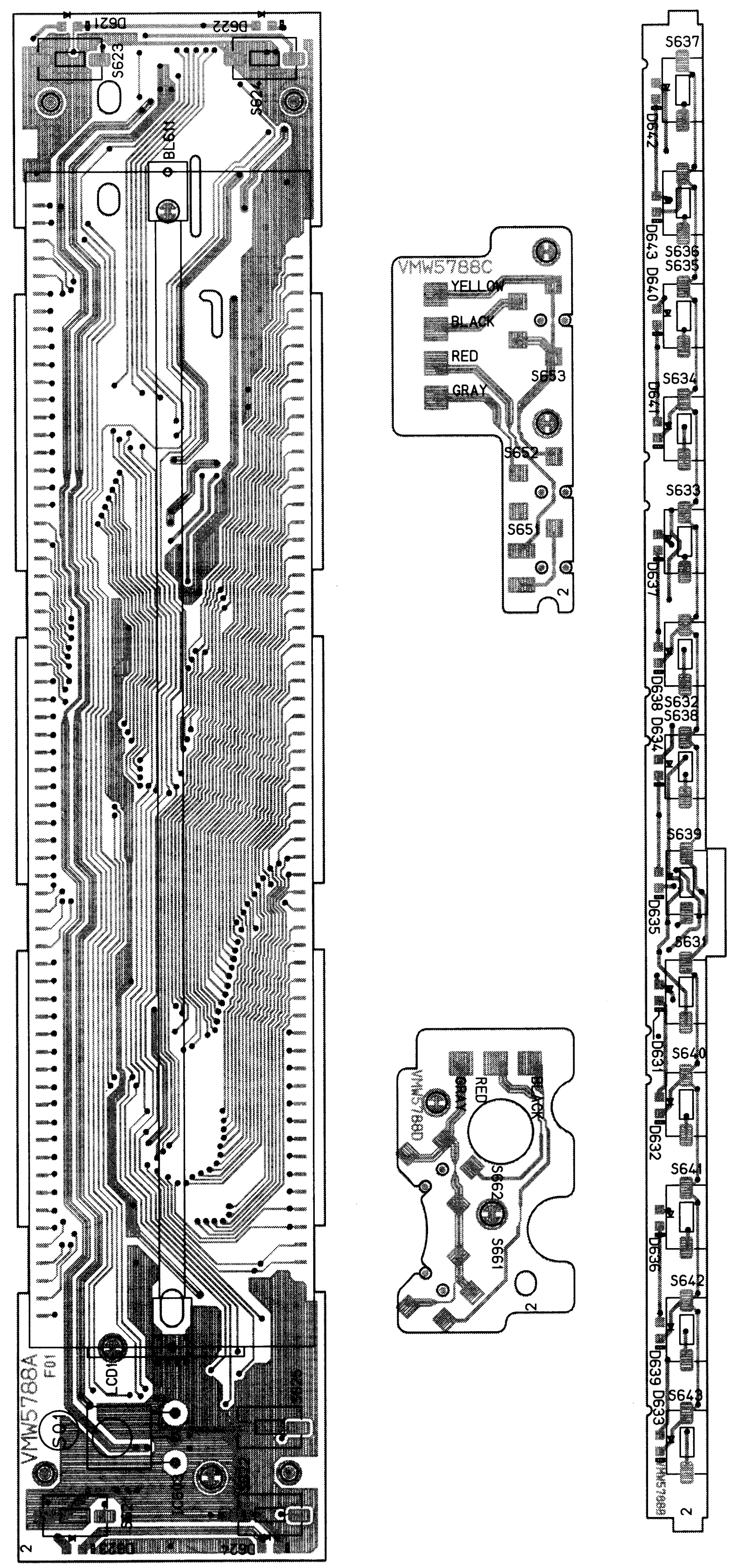
KD-LX1
KD-LX3 KD-LX3R

■ Switch Board (for KD-LX3 J/KD-LX3R E) : Block No. 04

(Solder side)



(Parts Side)


D621
D622
S623
S624
BL611
LCD1
VMW5788A
F01
S01
D623
D624
VMW5788C
YELLOW
BLACK
RED
GRAY
S653
S652
S651
VMW5788D
S662
S661
S637
D642
D643 D640
S636
S635
S634
D641
S633
D637
D638 D634
S632
S638
S639
D635
S631
D631
S640
D632
S641
D636
S642
D639 D633
S643
VMW5788B

PARTS LIST

[KD-LX1
KD-LX3 KD-LX3R]

* All printed circuit boards and its assemblies are not available as service parts.

KD-LX1 KD-LX3

Areas Suffix

J ---------- Northern America
No marks indicates all areas.

KD-LX3R

Areas Suffix

E ---------- Continental Europe
No marks indicates all areas.

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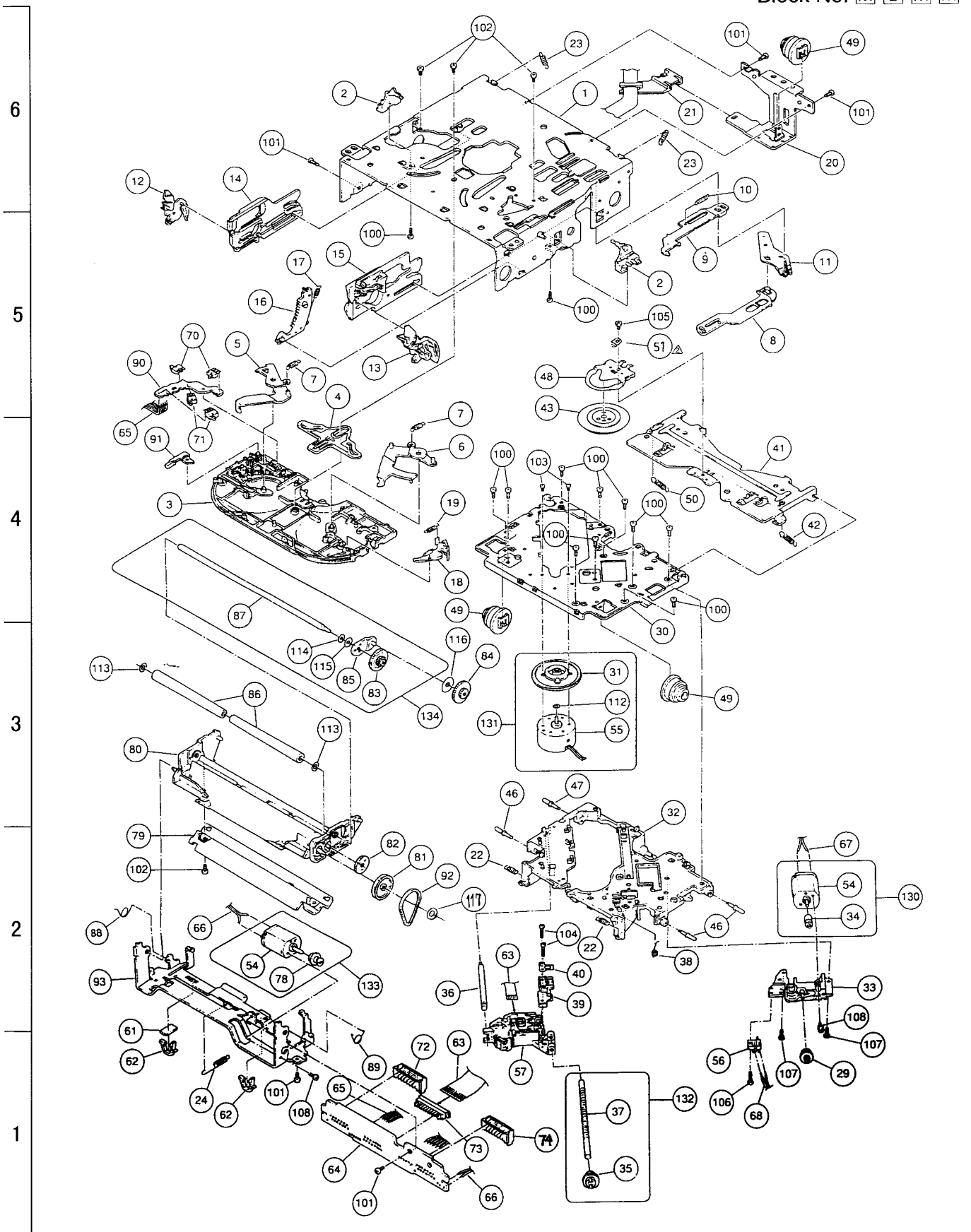
Packing Materials and Accessories Parts List ---------- 3-20

KD-LX1
KD-LX3 KD-LX3R

CD Mechanism Ass'y and Parts List

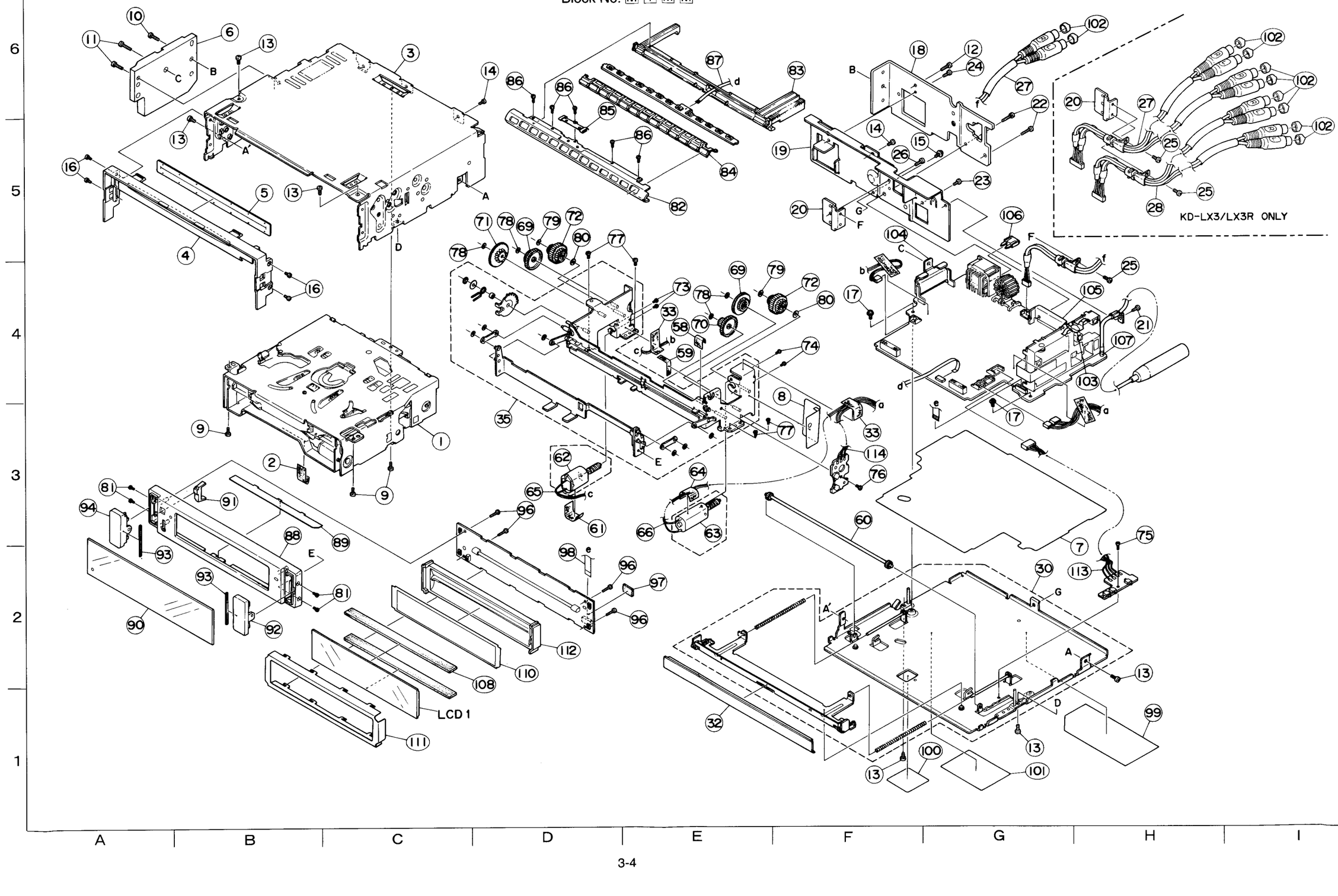
Block No. M 2 M M



KD-LX1
KD-LX3 KD-LX3R

Exploded View of General Assembly and Parts List

Block No. M 1 M M



■ Parts List (CD Mechanism)

BLOCK NO. M2MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	30310101T	FRAME		1		
	2	30310103T	DANPER PIN		2		
	3	30310107T	UPPER PLATE		1		
	4	30310108T	SEL STOP PLATE		1		
	5	30310142T	SEL ARM (L)L		1		
	6	30310143T	SEL ARM (R)L		1		
	7	30310145T	S ARM SPRING(L)		2		
	8	30310112T	TRIG LEVER		1		
	9	30310114T	TRIG PLATE		1		
	10	30310115T	TRIG PL SPRING		1		
	11	30310116T	TRIG ARM		1		
	12	30310117T	FIX ARM (L)		1		
	13	30310118T	FIX ARM (R)		1		
	14	30310119T	FIX PLATE (L)		1		
	15	30310120T	FIX PLATE (R)		1		
	16	30310121T	LDG GEAR (6)		1		
	17	30310122T	LDG GEAR (6)SP		1		
	18	30310124T	S.L ARM		1		
	19	30310125T	S.L ARM SPRING		1		
	20	30310126T	REAR DAM BKT(J)		1		
	21	30310127T	FPC GUIDE		1		
	22	30310128T	HUNG UP SP (F)		2		
	23	30310129T	HUNG UP SP (R)		2		
	24	30310130T	LEVEL SPRING		1		
	29	30300510T	PU GEAR(B)		1		
	30	30310501T	TTB		1		
	31	---------	TURN TABLE		1		
	32	30310503T	FMB		1		
	33	30310504T	FD GR BRACKET		1		
	34	---------	FD GEAR (A)		1		
	35	---------	FD GEAR (C)		1		
	36	30310538T	PU SHAFT		1		
	37	---------	FD SCREW		1		
	38	30310510T	THRUST SPRING		1		
	39	30310511T	PU M NUT		1		
	40	30310512T	NUT PUSH SPR PL		1		
	41	30310513T	CLP ARM		1		
	42	30310514T	CLP ARM SPRING		1		
	43	30310515T	CLAMPER		1		
	46	30310521T	LOCK PIN		3		
	47	30310522T	LOCK PIN BL		1		
	48	30310523T	CLAMPER PLATE		1		
	49	30310524T	DAMPER (J)		3		
	50	30310525T	CLP ARM SPR (L)		1		
	51	30310536T	STOPPER SPRING		1		
	54	---------	FEED MOTOR	FF030PK-09210	2		
	55	---------	SPINDLE MOTOR		1		
	56	64180404T	DET SWITCH	ESE11HS2	1		
	57	OPTIMA-720A1	CD PICK UNIT		1		
	61	11050210T	FELT		1		
	62	19501403T	WIRE CLAMPER		2		
	63	30311019T	PICK UP FPC(J)		1		
	64	30311032T	CONNECTER PCB(J		1		
	65	30311022T	WIRE (5P-J)		1		
	66	30311023T	WIRE (LD-J)		1		

BLOCK NO. M2MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	67	30311006T	WIRE (FD)		1		
	68	30311007T	WIRE (RS)		1		
	70	64180402T	DET SWITCH	ESE22MH1	2		
	71	64180403T	DET SWITCH	ESE22MH3	2		
	72	68150235T	CONNECTOR	TKC-F14P-J3	1		
	73	68170224T	CONNECTOR(15P)	6208010115	1		
	74	68150237T	CONNECTOR(12P)		1		
	78	---------	LDG PULLEY	D	1		
	79	30311105T	SOPPORT PLATE		1		
	80	30311108T	GR MT BLK		1		
	81	30311109T	LDG GEAR (2)		1		
	82	30311110T	LDG GEAR (3)		1		
	83	---------	LDG GEAR (4)		1		
	84	30311112T	LDG GEAR (5)		1		
	85	---------	LDG GR ARM		1		
	86	30311131T	LDG ROLLER		2		
	87	---------	LDG RLR SHAFT		1		
	88	30311118T	L.P SPRING (L)		1		
	89	30311119T	L.P SPRING (R)		1		
	90	30311123T	SW PCB		1		
	91	30311124T	SW ACTUATOR		1		
	92	30311129T	LDG BELT		1		
	93	30311130T	FRONT BRKT (J)		1		
	100	9C0620503T	C B TAP SCREW	M2X5	12		
	101	9C2020401T	C SCREW TS.G	M2X4	5		
	102	9C4320403T	C B TAP SCREW	M2X4	4		
	103	9C0117223T	SCREW	M1.7X2.2	2		
	104	9C0317803T	C SCREW	M1.7X8	2		
	105	9C4220201T	C TAP SCREW S3	M2X2	1		
	106	9C4420003T	C TAP SCREW B3	M2X10	1		
	107	9C4420503T	C TAP SCREW B3	M2X5	2		
	108	9P0220031T	TAMS SCREW	M2X4	2		
	112	---------	POLY WASHER		1		
	113	9W0330276T	POLY WASHER	2.9X5X0.3	2		
	114	---------	WAVE WASHER		1		
	115	---------	LUMILAR WASHER		1		
	116	9W0725030T	LUMILAR W		1		
	117	9W0640030T	WASHER		1		
	130	303105301T	FFED MOTOR ASSY	NO.34,54	1		
	131	303105302T	SP MOTOR ASSY	NO.31,55,112	1		
	132	303105303T	FEED SCREW ASSY	NO.35,37	1		
	133	303111301T	LDG MOTOR ASSY	NO.54,78	1		
	134	303111302T	RDG RLR SFT ASY	NO.83,85,87 NO.114,115	1 1		

■Parts List (General Assembly)

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	----------	CD MECHA		1		
	2	VYSA1R4-056	SPACER		1		
	3	LV10189-001A	CHASSIS TOP		1		
	4	LV10188-002A	FRONT COVER		1		
	5	LV40828-002A	BLIND		1		
	6	LV30945-002A	SIDE HEAT SINK		1		
	7	LV30953-202A	INSULATOR		1		
	8	LV41103-001A	WIRE PROTECTION		1		
	9	QYSDST2604Z	SCREW	T. CHAS+CD MECH	3		
	10	QYSDSF2610Z	TAPPING SCREW	T. CHAS+S HEAT	1		
	11	QYSDST2610Z	SCREW	T. CHAS+S HEAT	2		
	12	QYSDST2610Z	SCREW	T.CHASS+REAR	1		
	13	QYSDST2604Z	SCREW	T. CHAS+B. CHAS	6		
	14	QYSDST2604Z	SCREW	T. CHAS+R. BKT	2		
	15	VKZ4345-007	SCREW	BOTTOM CHA.+REA	1		
	16	QYSPSP2003M	SCREW	T. CHAS+F. COVE	4		
	17	VKZ4345-007	SCREW	MAIN PWB+BOTTOM	2		
	18	LV30946-002A	REAR HEAT SINK		1		
	19	LV30943-001A	REAR BRACKET		1		
	20	LV40790-001A	PIN CORD BRKT		1		
	21	QYSDST2604Z	SCREW	ANT.+REAR BKT	1		
	22	QYSDST2612Z	SCREW	REG.IC BKT+REAR	2		
	23	QYSDST2606Z	SCREW	CHANGER CON.+RE	1		
	24	QYSDST2606Z	SCREW	REAR H.SINK+REA	1		
	25	QYSDST2604Z	SCREW	KD-LX1 ONLY	1		
		QYSDST2604Z	SCREW	KD-LX3/LD-LX3R	2		
	26	QYSDST2604Z	SCREW	CORD BKT+REAR B	1		
	27	QAM0178-001	PIN CORD ASS'Y	KD-LX3/LD-LX3R	1		
		QAM0177-001	PIN PLUG CORD	KD-LX1 ONLY	1		
	28	QAM0179-001	CAR CABLE	KD-LX3/LD-LX3R	1		
	30	LV30940-002A	C. BOTTOM ASS'Y		1		
	32	LV30949-002A	PANEL COVER		1		
	33	VYSA1R4-056	SPACER	L.UNIT	2		
	35	LV20333-002A	L. UNIT ASS'Y		1		
	58	VYSA1R3-052	SPACER		1		
	59	LV41156-001A	FFC PROTECTION		1		
	60	LV31042-001A	ROD GEAR		1		
	61	VYSA1R4-056	SPACER	MOTOR L	1		
	62	QAR0029001-SA2	FEED MOTOR ASSY	FOR BKT MOTOR L	1		
	63	PPN13KA10C-SA6	MOTOR ASS'Y	FOR BKT MOTOR R	1		
	64	VYSA1R4-056	SPACER	MOTOR R	1		
	65	WJM0080-001A	E-SI C WIRE C-F	FOR MOTOR L	1		
	66	WJM0081-001A	E-SI C WIRE C-F	FOR MOTOR R	1		
	69	LV40786-001A	GEAR-D	BKT MOTOR L&R	2		
	70	LV40787-001A	GEAR-E	BKT MOTOR R	1		
	71	LV40788-001A	GEAR-F	BKT MOTOR L	1		
	72	LV30981-002A	CLUTCH ASS'Y		2		
	73	QYSPSPT2020Z	MINI SCREW	F.MOTOR+B.M. L	2		
	74	QYSPSPT2020Z	MINI SCREW	F.MOTOR+B.M. R	2		
	75	LV40865-001A	MINI SCREW	C.BOT+SW PWB	1		
	76	LV40865-001A	MINI SCREW	B.M.R+SW PWB	1		
	77	LV40865-001A	MINI SCREW	BKT.M.L&R+C.BOT	4		
	78	WDM215025	WASHER	FOR GEAR D,E,F	4		
	79	WDM214540	WASHER	FOR CLUTCH ASS'	2		
	80	WFM266025	WASHER	FOR CLUTCH	2		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	81	QYSPSPT1725M	MINI SCREW	LO.UNIT A+DIS.P	4		
	82	LV10191-001A	BUTTON PANEL	KD-LX1 ONLY	1		
		LV10191-002A	BUTTON PANEL	KD-LX3R ONLY	1		
		LV10191-003A	BUTTON PANEL	KD-LX3 ONLY	1		
	83	LV10186-003A	BUTTON BASE		1		
	84	LV20337-003A	PRESET BUTTON		1	J	
		LV20337-002A	PRESET BUTTON		1	E	
	85	LV30950-001A	PLATE SPRING		1		
	86	VKZ4777-004	MINI SCREW		5		
	87	QUQ105-0610AC	FFC WIRE		1		
	88	LV20336-002A	DISPLAY PANEL		1	J	
		LV20336-001A	DISPLAY PANEL		1	E	
	89	LV31264-001A	D.P.PLATE		1		
	90	LV30944-001A	FINDER		1		
	91	LV40827-002A	REMOTE LENS	KD-LX3/KD-LX3R	1		
	92	LV40823-002A	UP DOWN B.ASS'Y		1		
	93	VYSH1R5-007	SPACER		2		
	94	LV40824-002A	+ - BUTTON ASSY		1		
	96	VKZ4777-001	MINI SCREW	D.PANEL+SW.PWB	4		
	97	PU59915-102	SPACER		1		
	98	QUQ205-1413AC	FFC		1		
	99	LV31252-001A	NAME PLATE	KD-LX3 ONLY	1		
		LV30954-001A	NAME PLATE	KD-LX1 ONLY	1		
		LV31011-001A	NAME PLATE	KD-LX3R ONLY	1		
	100	LV41143-001A	SHEET		1		
	101	VND4922-003	CAUTION LABEL	HTD	1	J	
	102	VYTA500-001	PIN CAP	KD-LX1 ONLY	2		
		VYTA500-001	PIN CAP	KD-LX3/KD-LX3R	8		
	103	VMA4652-001SS	EARTH PLATE		1		
	104	LV40791-001A	POWER IC BRKT		1		
	105	LV40792-001A	REG.IC BRACKET		1		
	106	QMFZ036-100-J1	FUSE		1		
	107	VMP0029-031	ANT SOCKET		1		
	108	QNZ0392-001	RUBBER CONNECTO		2		
	110	LV40836-201A	LCD FILTER		1		
	111	LV30947-001A	LCD COVER		1		
	112	LV30948-001A	LIGHTING CASE		1		
	113	WJM0083-001A	CONN.WIRE ASSY		1		
	114	WJM0082-001A	CONN.WIRE ASSY		1		
	LCD 1	QLD0084-001	LCD MODULE	KD-LX1 ONLY	1		
		QLD0083-001	LCD MODULE	KD-LX3/KD-LX3R	1		

■Main P. C. B. (KD-LX1)

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	B2871	QAN0009-001Z	BUZZER		
	C 1	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 2	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 3	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 4	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 5	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 7	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 11	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	C 12	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 13	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 14	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 15	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 21	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 22	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 23	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 24	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 25	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 26	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 27	NDC21HJ-6ROX	C.CAPA. C.M		
	C 28	NDC21HJ-7ROX	C CAPACITOR		
	C 29	NCS21HJ-2ROX	C CAPACITOR	2.0PF 5% 50V	
	C 30	NCS21HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 31	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 32	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 33	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 34	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 35	QFV41HJ-473	TF CAPACITOR	.047MF 5% 50V	
	C 36	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 37	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 38	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 39	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 101	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 102	NCB21HK-561X	C CAPACITOR	560PF 10% 50V	
	C 103	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 106	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	
	C 112	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 115	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 116	NCB21EK-823X	C CAPACITOR	.082MF 10% 25V	
	C 117	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 119	NBE20JM-225X	TS E CAPACITOR		
	C 120	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 121	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 124	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 125	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 141	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 142	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 143	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 144	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 151	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 152	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V	
	C 153	NCS21HJ-121X	C CAPACITOR	120PF 5% 50V	
	C 155	QEKJOJM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 156	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 181	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 182	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 183	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 184	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 185	NCB21HK-682X	C.CAPA. C.M	6800PF 10% 50V	
	C 186	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 187	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 188	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 189	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 201	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 202	NCB21HK-561X	C CAPACITOR	560PF 10% 50V	
	C 203	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 206	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	
	C 212	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 215	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 216	NCB21EK-823X	C CAPACITOR	.082MF 10% 25V	
	C 217	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 219	NBE20JM-225X	TS E CAPACITOR		
	C 220	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 221	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 224	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 225	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 241	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 242	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 243	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 244	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 251	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 252	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V	
	C 253	NCS21HJ-121X	C CAPACITOR	120PF 5% 50V	
	C 281	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 282	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	
	C 283	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 284	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 285	NCB21HK-682X	C.CAPA. C.M	6800PF 10% 50V	
	C 286	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 501	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 502	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 503	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 504	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 505	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 506	QEKJOJM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 507	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 508	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 509	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 510	NDC21HJ-560X	C CAPACITOR		
	C 512	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 513	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 514	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 521	QEKJOJM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 522	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 523	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 525	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 526	QEKJOJM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 531	QEKJOJM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 532	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 533	NCS21HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 534	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 535	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 536	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 537	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 538	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 539	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 542	NCB21HK-182X	C CAPACITOR	1800PF 10% 50V	
	C 543	NCS21HJ-271X	C CAPACITOR	270PF 5% 50V	
	C 545	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 546	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 547	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 549	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 551	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 552	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 553	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 554	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 555	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 556	NDC21HJ-100X	C.CAPA. C.M		
	C 557	NDC21HJ-100X	C.CAPA. C.M		
	C 558	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 571	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 573	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 574	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 581	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 582	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 583	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 584	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 701	NDC21HJ-220X	C CAPACITOR		
	C 702	NDC21HJ-270X	C.CAPA. C.M		
	C 703	NDC21HJ-270X	C.CAPA. C.M		
	C 704	NDC21HJ-8R0X	C CAPACITOR		
	C 705	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 707	NCB21EK-103X	C CAPACITOR	.010MF 10% 25V	
	C 708	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 710	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 711	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 712	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 713	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 718	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 719	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 771	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 821	NCB21HK-183X	C CAPACITOR	.018MF 10% 50V	
	C 822	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 823	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 824	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 825	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 826	NCB21HK-122X	C CAPACITOR	1200PF 10% 50V	
	C 827	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 828	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 871	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 911	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 912	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 913	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 914	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 931	NDC21HJ-101X	C.CAPACITOR		
	C 932	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 940	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 941	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 944	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 951	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 952	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 954	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 955	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 957	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 961	QEZ0337-228	E CAPACITOR	2200MF	
	C 962	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 964	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 965	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 966	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 967	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 968	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 969	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 971	QER41CM-226	E CAPACITOR	22MF 20% 16V	
	C 977	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 978	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 982	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 991	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 992	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 993	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 994	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 995	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 996	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 997	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 998	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	CN301	QGA2501C1-03	3P CONNECTOR		
	CN501	QGB1214J1-12S	CONNECTOR		
	CN502	QGB1214J1-14S	CONNECTOR		
	CN503	QGA2501F1-02	CONNECTOR		
	CN504	QGA2501F1-02	CONNECTOR		
	CN701	QGF0503C1-14V	CONNECTOR		
	CN702	QGF0501F1-06X	CONNECTOR C.M		
	CN703	QGA2501F1-04	CONNECTOR		
	CN704	QGA2501F1-03	CONNECTOR		
	CN771	QNZ0095-001	CONNECTOR		
	CN901	QNZ0090-001	CAR CONNECTOR		
	D 1	1SS355-X	DIODE C.M		
	D 2	1SS355-X	DIODE C.M		
	D 3	MA152WK-X	SI DIODE		
	D 111	MA152WK-X	SI DIODE		
	D 131	MA152WA-X	DIODE		
	D 231	MA152WA-X	DIODE		
	D 581	UDZS6.2B-X	SI DIODE		
	D 711	1SS355-X	DIODE C.M		
	D 941	1SS355-X	DIODE C.M		
	D 952	UDZ4.7B-X	Z.DIODE C.M X		
	D 953	1SS355-X	DIODE C.M		
	D 954	1SS355-X	DIODE C.M		
	D 961	1N5401-TU-15	DIODE		
	D 962	CRS03-W	SB DIODE		
	D 963	MA152WA-X	DIODE		
	D 967	CRS03-W	SB DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 978	UDZ11B-X	2.DIODE		
	D 980	1SS355-X	DIODE C.M		
	IC 21	TB2118F-X	IC		
	IC151	NJM4565M-W	IC		
	IC181	BA3880FS-X	IC		
	IC501	TA2109F-X	IC		
	IC521	TC9462F	IC		
	IC581	KA3031	IC		
	IC582	BA6956AN	IC		
	IC701	UPD784215GC-112	IC		
	IC702	IC-PST600M/G/-W			
	IC703	24LC16B-I/SN-X	IC		
	IC771	HD74HC126FP-X	IC		
	IC821	NJM2100M-W	IC		
	IC911	LC75385NE	IC		
	IC941	HA13158A	IC		
	IC951	NJM2904M-W	IC		
	IC961	BA4901A-V3	IC		
	L 1	QQL244K-4R7Z	INDUCTOR		
	L 21	NQL114K-470X	INDUCTOR		
	L 521	NQL114K-470X	INDUCTOR		
	L 551	NQL114K-470X	INDUCTOR		
	L 701	NQL114K-470X	INDUCTOR		
	L 961	QQR0703-001	CHOKE COIL		
	PP 1	QZW0010-001	STYLE PIN		
	PP 2	QZW0010-001	STYLE PIN		
	Q 1	UN2211-X	TRANSISTOR		
	Q 2	2SD601A/R/-X	TRANSISTOR		
	Q 3	2SD601A/R/-X	TRANSISTOR		
	Q 4	UN2111-X	TRANSISTOR		
	Q 5	2SB709A/R/-X	TRANSISTOR		
	Q 6	2SB815/7/-X	TRANSISTOR		
	Q 7	UN2211-X	TRANSISTOR		
	Q 8	UN2211-X	TRANSISTOR		
	Q 11	2SC2412K/R/-X	TRANSISTOR		
	Q 12	2SC2412K/R/-X	TRANSISTOR		
	Q 132	2SD601A/R/-X	TRANSISTOR		
	Q 181	UN2211-X	TRANSISTOR		
	Q 232	2SD601A/R/-X	TRANSISTOR		
	Q 501	2SB1241/QR/-T	TRANSISTOR		
	Q 581	2SB1241/QR/-T	TRANSISTOR		
	Q 871	UN2211-X	TRANSISTOR		
	Q 941	UN2211-X	TRANSISTOR		
	Q 942	UN2211-X	TRANSISTOR		
	Q 961	2SB1241/QR/-T	TRANSISTOR		
	Q 962	2SB709A/R/-X	TRANSISTOR		
	Q 963	UN2213-X	TRANSISTOR		
	Q 964	2SB709A/R/-X	TRANSISTOR		
	Q 965	2SD601A/R/-X	TRANSISTOR		
	Q 977	UN2111-X	TRANSISTOR		
	Q 979	UN2111-X	TRANSISTOR		
	Q 981	UN2111-X	TRANSISTOR		
	Q 982	UN2211-X	TRANSISTOR		
	Q 983	2SD601A/R/-X	TRANSISTOR		
	R 1	NRSA02J-0R0X	RES. C.M	5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 3	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 4	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 5	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 6	NRS181J-8R2X	MG RESISTOR	8.2 5% 1/8W	
	R 7	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 8	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 9	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 10	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 11	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 12	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 13	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 14	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 15	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 16	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 17	NRSA02J-471X	RES. C.M	470 5% 1/10W	
	R 18	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 21	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 22	NRSA02J-622X	MG RESISTOR	6.2K 5% 1/10W	
	R 23	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 24	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 25	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 26	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 27	NRSA02J-393X	MG RESISTOR	39K 5% 1/10W	
	R 28	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 29	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 30	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 31	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 32	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 101	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 102	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 111	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 112	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 113	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 114	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 116	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 117	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 118	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 132	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 134	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 136	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 143	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 144	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 151	NRSA02J-243X	MG RESISTOR	24K 5% 1/10W	
	R 152	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 153	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 155	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 181	NRSA02J-512X	MG RESISTOR	5.1K 5% 1/10W	
	R 182	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 201	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 202	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 211	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 212	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 213	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 214	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 216	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 217	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 218	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 232	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 234	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 236	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 243	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 244	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 251	NRSA02J-243X	MG RESISTOR	24K 5% 1/10W	
	R 252	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 253	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 255	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 337	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 501	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 502	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 503	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 504	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 505	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 506	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 507	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 508	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 509	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 510	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 511	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 512	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 513	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 514	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 521	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 522	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 523	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 524	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 525	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 531	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 532	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 533	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 534	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 536	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 537	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 541	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 542	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 543	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 544	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 545	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 547	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 571	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 581	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 582	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 583	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 584	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 585	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 586	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 587	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 588	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 589	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 590	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 591	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 592	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 593	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 701	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 702	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 703	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 704	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 705	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 706	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 707	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 708	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 709	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 710	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 711	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 712	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 713	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 714	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 715	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 716	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 717	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 718	NQL012K-1R8X	INDUCTOR		
	R 719	NQL012K-1R8X	INDUCTOR		
	R 720	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 721	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 722	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 723	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 724	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 725	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 728	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 729	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 730	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 731	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 732	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 733	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 734	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 735	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 736	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 737	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 738	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 739	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 740	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 742	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 743	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 746	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 747	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 748	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 749	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 750	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 751	NRSA02J-106X	RES. C.M	10M 5% 1/10W	
	R 752	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 772	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 773	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 774	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 775	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 776	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 777	NRSA02J-223X	RES. C.M	22K 5% 1/10W	

■Main P. C. B. (KD-LX3/KD-LX3R)

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 778	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 779	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 781	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 782	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 821	QRZ0125-102X	C RESISTOR	1.0K 1/1W	
	R 822	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 823	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 824	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 825	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 826	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 827	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 828	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 829	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 830	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 831	NRSA02J-820X	MG RESISTOR	82 5% 1/10W	
	R 842	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 871	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 911	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 912	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 913	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 914	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 941	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 942	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 943	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 954	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 955	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 956	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 957	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 958	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 961	QRE142J-102X	C RESISTOR	1.0K 5% 1/4W	
	R 962	NRSA02J-912X	RES. C.M	9.1K 5% 1/10W	
	R 963	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 964	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 965	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 966	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 967	NRS181J-1R8X	MG RESISTOR	1.8 5% 1/8W	
	R 968	NRSA02J-0ROX	RES. C.M	5% 1/10W	
	R 969	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 970	NRSA02J-124X	MG RESISTOR	120K 5% 1/10W	
	R 971	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 972	NRSA02J-0ROX	RES. C.M	5% 1/10W	
	R 973	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 974	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 975	NRSA02J-124X	MG RESISTOR	120K 5% 1/10W	
	R 976	NRS181J-222X	MG RESISTOR	2.2K 5% 1/8W	
	R 977	NRS181J-222X	MG RESISTOR	2.2K 5% 1/8W	
	R 981	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 984	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 985	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	TH981	NAD0021-103X	THERMISTOR		
	TU 1	QAU0120-003	TUNER PACK		
	X 21	QAX0523-001Z	CRYSTAL		
	X 521	QAX0413-001Z	CRYSTAL		
	X 701	QAX0524-001Z	CRYSTAL		
	X 702	QAX0401-001	CRYSTAL		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	B2871	QAN0009-001Z	BUZZER		
	C 1	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 2	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V	
	C 3	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 4	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 5	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 7	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 11	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	C 12	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 13	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 14	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 15	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 21	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 22	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 23	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 24	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 25	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 26	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 27	NDC21HJ-6ROX	C.CAPA. C.M		
	C 28	NDC21HJ-7ROX	C CAPACITOR		
	C 29	NCS21HJ-2ROX	C CAPACITOR	2.0PF 5% 50V	
	C 30	NCS21HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 31	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 32	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 33	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 34	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 35	QFV41HJ-473	TF CAPACITOR	.047MF 5% 50V	
	C 36	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 37	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 38	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 39	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 101	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 102	NCB21HK-561X	C CAPACITOR	560PF 10% 50V	
	C 103	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 104	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	E
	C 106	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	E
	C 106	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	J
	C 112	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 115	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 116	NCB21EK-823X	C CAPACITOR	.082MF 10% 25V	
	C 117	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 119	NBE20JM-225X	TS E CAPACITOR		
	C 120	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 121	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 124	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 125	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 141	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 142	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 143	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 144	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 151	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 152	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V	
	C 153	NCS21HJ-121X	C CAPACITOR	120PF 5% 50V	
	C 155	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 156	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 172	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 173	QERF0JM-226Z	E CAPACITOR	22MF 20% 6.3V	
	C 174	NCB21EK-223X	C CAPACITOR	.022MF 10% 25V	
	C 175	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 181	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 182	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	
	C 183	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 184	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 185	NCB21HK-682X	C.CAPA. C.M	6800PF 10% 50V	
	C 186	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 187	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 188	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 189	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 201	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 202	NCB21HK-561X	C CAPACITOR	560PF 10% 50V	
	C 203	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 206	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	J
	C 206	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	E
	C 212	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 215	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 216	NCB21EK-823X	C CAPACITOR	.082MF 10% 25V	
	C 217	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 219	NBE20JM-225X	TS E CAPACITOR		
	C 220	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 221	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 224	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 225	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 241	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 242	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 243	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 244	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 251	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 252	NCS21HJ-821X	C CAPACITOR	820PF 5% 50V	
	C 253	NCS21HJ-121X	C CAPACITOR	120PF 5% 50V	
	C 272	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 273	QERF0JM-226Z	E CAPACITOR	22MF 20% 6.3V	
	C 281	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 282	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	
	C 283	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 284	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
	C 285	NCB21HK-682X	C.CAPA: C.M	6800PF 10% 50V	
	C 286	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 301	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 302	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 303	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 304	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 305	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 306	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 307	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 308	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 309	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 310	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 321	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 322	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 323	QER41CM-476	E CAPACITOR	47MF 20% 16V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 324	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 325	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 327	NCB21EK-823X	C CAPACITOR	.082MF 10% 25V	
	C 328	NCB21HK-682X	C.CAPA. C.M	6800PF 10% 50V	
	C 329	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 330	NCB21HK-123X	C CAPACITOR	.012MF 10% 50V	
	C 331	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V	
	C 332	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	
	C 333	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	
	C 334	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 335	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 336	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 401	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 402	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 403	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 405	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 406	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 407	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 408	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 409	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 410	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 501	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 502	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 503	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 504	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 505	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 506	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 507	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 508	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 509	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 510	NDC21HJ-560X	C CAPACITOR		
	C 512	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 513	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 514	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 521	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 522	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 523	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 525	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 526	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 531	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 532	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 533	NCS21HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 534	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	
	C 535	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 536	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 537	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 538	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 539	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 542	NCB21HK-182X	C CAPACITOR	1800PF 10% 50V	
	C 543	NCS21HJ-271X	C CAPACITOR	270PF 5% 50V	
	C 545	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 546	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 547	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 549	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 551	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 552	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 553	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 554	QERF0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 555	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 556	NDC21HJ-100X	C.CAPA. C.M		
	C 557	NDC21HJ-100X	C.CAPA. C.M		
	C 558	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 571	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 573	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 574	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 581	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 582	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 583	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 584	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 701	NDC21HJ-220X	C CAPACITOR		
	C 702	NDC21HJ-270X	C.CAPA. C.M		
	C 703	NDC21HJ-270X	C.CAPA. C.M		
	C 704	NDC21HJ-8ROX	C CAPACITOR		
	C 705	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 707	NCB21EK-103X	C CAPACITOR	.010MF 10% 25V	
	C 708	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 710	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 711	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 712	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 713	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 718	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 719	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 761	NCB21EK-223X	C CAPACITOR	.022MF 10% 25V	E
	C 762	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V	E
	C 763	QEKJ1HM-225Z	E CAPACITOR	2.2MF 20% 50V	E
	C 764	NDC21HJ-820X	C CAPACITOR		E
	C 765	NDC21HJ-470X	C CAPACITOR		E
	C 766	QEKJ0JM-476Z	AL E.CAPACITOR	47MF 20% 6.3V	E
	C 767	NCB21HK-103X	CER.CAPACITOR-M	.010MF 10% 50V	E
	C 771	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 821	NCB21HK-183X	C CAPACITOR	.018MF 10% 50V	
	C 822	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 823	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 824	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 825	NCB21EK-393X	C CAPACITOR	.039MF 10% 25V	
	C 826	NCB21HK-122X	C CAPACITOR	1200PF 10% 50V	
	C 827	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 828	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 841	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	E
	C 871	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 911	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 912	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 913	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 914	NCB21HK-272X	C CAPACITOR	2700PF 10% 50V	
	C 931	NDC21HJ-101X	C.CAPACITOR		
	C 932	NCB21EK-473X	C CAPACITOR	.047MF 10% 25V	
	C 940	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 941	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 944	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 951	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 952	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 954	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 955	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 957	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 961	QEZ0337-228	E CAPACITOR	2200MF	
	C 962	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C 964	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
	C 965	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 966	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 967	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 968	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 969	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 971	QER41CM-226	E CAPACITOR	22MF 20% 16V	
	C 977	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 978	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V	
	C 982	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 991	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 992	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 993	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 994	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 995	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 996	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 997	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 998	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	CN301	QGA2501C1-07	7P CONNECTOR		
	CN302	QGA2501C1-06	6P CONNECTOR		
	CN501	QGB1214J1-12S	CONNECTOR		
	CN502	QGB1214J1-14S	CONNECTOR		
	CN503	QGA2501F1-02	CONNECTOR		
	CN504	QGA2501F1-02	CONNECTOR		
	CN701	QGF0503C1-14V	CONNECTOR		
	CN702	QGF0501F1-06X	CONNECTOR C.M		
	CN703	QGA2501F1-04	CONNECTOR		
	CN704	QGA2501F1-03	CONNECTOR		
	CN771	QNZ0095-001	CONNECTOR		
	CN901	QNZ0090-001	CAR CONNECTOR		
	D 1	1SS355-X	DIODE C.M		
	D 2	1SS355-X	DIODE C.M		
	D 3	MA152WK-X	SI DIODE		
	D 101	1SS355-X	SI.DIODE		E
	D 111	MA152WK-X	SI DIODE		
	D 131	MA152WA-X	DIODE		
	D 231	MA152WA-X	DIODE		
	D 321	MA152WK-X	SI DIODE		
	D 322	1SS355-X	DIODE C.M		
	D 581	UDZS6.2B-X	SI DIODE		
	D 711	1SS355-X	DIODE C.M		
	D 841	MA152WA-X	DIODE		E
	D 941	1SS355-X	DIODE C.M		
	D 952	UDZ4.7B-X	Z.DIODE C.M X		
	D 953	1SS355-X	DIODE C.M		
	D 954	1SS355-X	DIODE C.M		
	D 961	1N5401-TU-15	DIODE		
	D 962	CRS03-W	SB DIODE		
	D 963	MA152WA-X	DIODE		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 967	CRS03-W	SB DIODE		
	D 978	UDZ11B-X	Z.DIODE		
	D 980	1SS355-X	DIODE C.M		
	IC 21	TB2118F-X	IC		
	IC151	NJM4565M-W	IC		
	IC171	NJM4565M-W	IC		
	IC181	BA3880FS-X	IC		
	IC301	BA3220FV-X	IC		
	IC321	M5282FP-XE	IC		
	IC322	BU4066BCF-X	IC		
	IC323	NJM4565M-W	IC		
	IC401	BA3220FV-X	IC		
	IC501	TA2109F-X	IC		
	IC521	TC9462F	IC		
	IC581	KA3031	IC		
	IC582	BA6956AN	IC		
	IC701	UPD784215GC-112	IC		
	IC702	IC-PST600M/G/-W			
	IC703	24LC32A-I/SN-X	I.C(EP-ROM)		E
	IC703	24LC16B-I/SN-X	IC		J
	IC761	SAA6579T-X	IC		E
	IC771	HD74HC126FP-X	IC		
	IC821	NJM2100M-W	IC		
	IC911	LC75385NE	IC		
	IC941	HA13158A	IC		
	IC951	NJM2904M-W	IC		
	IC961	BA4901A-V3	IC		
	L 1	QQL244K-4R7Z	INDUCTOR		
	L 21	NQL114K-470X	INDUCTOR		
	L 521	NQL114K-470X	INDUCTOR		
	L 551	NQL114K-470X	INDUCTOR		
	L 701	NQL114K-470X	INDUCTOR		
	L 961	QQR0703-001	CHOKE COIL		
	PP 1	QZW0010-001	STYLE PIN		
	PP 2	QZW0010-001	STYLE PIN		
	Q 1	UN2211-X	TRANSISTOR		
	Q 2	2SD601A/R/-X	TRANSISTOR		
	Q 3	2SD601A/R/-X	TRANSISTOR		
	Q 4	UN2111-X	TRANSISTOR		
	Q 5	2SB709A/R/-X	TRANSISTOR		
	Q 6	2SB815/7/-X	TRANSISTOR		
	Q 7	UN2211-X	TRANSISTOR		
	Q 8	UN2211-X	TRANSISTOR		
	Q 11	2SC2412K/R/-X	TRANSISTOR		
	Q 12	2SC2412K/R/-X	TRANSISTOR		
	Q 101	2SD601A/R/-X	SI.TRANSISTOR		E
	Q 102	UN2111-X	TRANSISTOR		E
	Q 131	2SD1048/6-7/-X	TRANSISTOR		
	Q 132	2SD1048/6-7/-X	TRANSISTOR		
	Q 181	UN2211-X	TRANSISTOR		
	Q 201	2SD601A/R/-X	SI.TRANSISTOR		E
	Q 231	2SD1048/6-7/-X	TRANSISTOR		
	Q 232	2SD1048/6-7/-X	TRANSISTOR		
	Q 321	UN2211-X	TRANSISTOR		
	Q 322	UN2211-X	TRANSISTOR		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 323	2SD1048/6-7/-X	TRANSISTOR		
	Q 501	2SB1241/QR/-T	TRANSISTOR		
	Q 581	2SB1241/QR/-T	TRANSISTOR		
	Q 582	UN2211-X	TRANSISTOR		
	Q 841	UN2211-X	TRANSISTOR		E
	Q 871	UN2211-X	TRANSISTOR		
	Q 941	UN2211-X	TRANSISTOR		
	Q 942	UN2211-X	TRANSISTOR		
	Q 961	2SB1241/QR/-T	TRANSISTOR		
	Q 962	2SB709A/R/-X	TRANSISTOR		
	Q 963	UN2213-X	TRANSISTOR		
	Q 964	2SB709A/R/-X	TRANSISTOR		
	Q 977	UN2111-X	TRANSISTOR		
	Q 979	UN2111-X	TRANSISTOR		
	Q 981	UN2111-X	TRANSISTOR		
	Q 982	UN2211-X	TRANSISTOR		
	Q 983	2SD601A/R/-X	TRANSISTOR		
	R 1	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 3	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 4	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 5	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 6	NRS181J-8R2X	MG RESISTOR	8.2 5% 1/8W	
	R 7	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 8	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 9	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 10	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 11	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 12	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 13	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 14	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 15	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 16	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 17	NRSA02J-471X	RES. C.M	470 5% 1/10W	
	R 18	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 21	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 22	NRSA02J-622X	MG RESISTOR	6.2K 5% 1/10W	
	R 23	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 24	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 25	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 26	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 27	NRSA02J-393X	MG RESISTOR	39K 5% 1/10W	
	R 28	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 29	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 30	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 31	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 32	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 101	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 102	NRSA02J-273X	RES. C.M	27K 5% 1/10W	E
	R 102	NRSA02J-103X	RES. C.M	10K 5% 1/10W	J
	R 103	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	E
	R 111	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 112	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 113	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 114	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 116	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 117	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 118	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 131	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 132	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 133	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 134	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 135	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 136	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 141	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 142	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 143	NRSA02J-823X	MG RESISTOR	82K 5% 1/10W	
	R 144	NRSA02J-823X	MG RESISTOR	82K 5% 1/10W	
	R 145	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 146	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 151	NRSA02J-243X	MG RESISTOR	24K 5% 1/10W	
	R 152	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 153	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 155	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 171	NRSA02J-471X	RES. C.M	470 5% 1/10W	
	R 172	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 173	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 174	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 175	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 176	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 177	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 181	NRSA02J-512X	MG RESISTOR	5.1K 5% 1/10W	
	R 182	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 201	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 202	NRSA02J-273X	RES. C.M	27K 5% 1/10W	E
	R 202	NRSA02J-103X	RES. C.M	10K 5% 1/10W	J
	R 203	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	E
	R 211	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 212	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 213	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 214	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 216	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 217	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 218	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 231	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 232	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 233	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 234	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 235	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 236	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 241	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 242	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 243	NRSA02J-823X	MG RESISTOR	82K 5% 1/10W	
	R 244	NRSA02J-823X	MG RESISTOR	82K 5% 1/10W	
	R 245	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 246	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 251	NRSA02J-243X	MG RESISTOR	24K 5% 1/10W	
	R 252	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 253	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 255	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 272	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 273	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 274	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 275	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 276	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 277	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 301	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 302	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 303	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 304	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 305	NRSA02J-154X	RES. C.M	150K 5% 1/10W	
	R 321	NRSA02J-224X	RES. C.M	220K 5% 1/10W	
	R 322	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 323	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 324	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 325	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 326	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 327	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 328	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 329	NRSA02J-0ROX	RES. C.M	5% 1/10W	
	R 330	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 331	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 332	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 333	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 334	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 335	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 336	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 337	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 338	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 339	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 340	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 341	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 342	QRE141J-105Y	C RESISTOR	1.0M 5% 1/4W	
	R 343	QRE141J-105Y	C RESISTOR	1.0M 5% 1/4W	
	R 344	QRE141J-105Y	C RESISTOR	1.0M 5% 1/4W	
	R 401	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 402	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 403	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 404	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 405	NRSA02J-154X	RES. C.M	150K 5% 1/10W	
	R 421	NRSA02J-224X	RES. C.M	220K 5% 1/10W	
	R 501	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 502	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 503	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 504	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 505	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 506	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 507	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 508	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 509	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 510	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 511	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 512	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 513	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 514	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 521	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	

BLOCK NO. 012

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 522	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 523	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 524	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 525	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 531	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 532	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 533	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 534	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 536	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 537	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 541	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 542	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 543	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 544	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 545	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 547	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 571	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 581	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 582	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 583	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 584	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 585	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 586	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 587	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 588	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
	R 589	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 590	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 591	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 592	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 593	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 701	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 702	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 703	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 704	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 705	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 706	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 707	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 708	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 709	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 710	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 711	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 712	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 713	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 714	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 715	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 716	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 717	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 718	NQL012K-1R8X	INDUCTOR		
	R 719	NQL012K-1R8X	INDUCTOR		
	R 720	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 721	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 722	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 723	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 724	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 725	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	

BLOCK NO. 012

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 728	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 729	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 730	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 731	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 732	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 733	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 734	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 735	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 736	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 737	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 738	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 739	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 741	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 742	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 743	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 744	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	E
	R 746	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	J
	R 747	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 748	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 749	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 750	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 751	NRSA02J-106X	RES. C.M	10M 5% 1/10W	
	R 761	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	E
	R 762	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	E
	R 763	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	E
	R 764	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	E
	R 772	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 773	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 774	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 775	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 776	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 777	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 778	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 779	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 781	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 782	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 821	QRZ0125-102X	C RESISTOR	1.0K 1/1W	
	R 822	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 823	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 824	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 825	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 826	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 827	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 828	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 829	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 830	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 831	NRSA02J-820X	MG RESISTOR	82 5% 1/10W	
	R 841	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	E
	R 842	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 871	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 911	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 912	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 913	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 914	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 941	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	

■Switch P. C. B. (KD-LX1)

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 942	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 943	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 951	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 952	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 953	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 954	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 955	NRSA02J-105X	MG RESISTOR	1.0M 5% 1/10W	
	R 956	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 957	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 958	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 961	QRE142J-102X	C RESISTOR	1.0K 5% 1/4W	
	R 962	NRSA02J-912X	RES. C.M	9.1K 5% 1/10W	
	R 963	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 964	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 965	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 966	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 967	NRS181J-1R8X	MG RESISTOR	1.8 5% 1/8W	
	R 968	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 969	NRSA02J-223X	RES. C.M	22K 5% 1/10W	
	R 970	NRSA02J-124X	MG RESISTOR	120K 5% 1/10W	
	R 971	NRSA02J-912X	RES. C.M	9.1K 5% 1/10W	
	R 972	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 973	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 974	NRSA02J-333X	MG RESISTOR	33K 5% 1/10W	
	R 975	NRSA02J-124X	MG RESISTOR	120K 5% 1/10W	
	R 976	NRS181J-222X	MG RESISTOR	2.2K 5% 1/8W	
	R 977	NRS181J-222X	MG RESISTOR	2.2K 5% 1/8W	
	R 981	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 984	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 985	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	TH951	NAD0021-103X	THERMISTOR		
	TH981	NAD0021-103X	THERMISTOR		
	TU 1	QAU0120-003	TUNER PACK		J
	TU 1	QAU0103-001	FM FRONT END		E
	X 21	QAX0523-001Z	CRYSTAL		
	X 521	QAX0413-001Z	CRYSTAL		
	X 701	QAX0524-001Z	CRYSTAL		
	X 702	QAX0401-001	CRYSTAL		
	X 761	QAX0425-001Z	CRYSTAL		E

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BL611	QLL0059-001	BACK LIGHT		
	C 601	NBE20JM-475X	TS E CAPACITOR		
	C 602	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 603	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 604	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 605	NBE20JM-475X	TS E CAPACITOR		
	C 606	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 607	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 608	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 611	NBE21AM-106X	E CAPACITOR		
	C 612	NFV41HJ-183X	MPPS CAPACITOR	.018MF 5% 50V	
	C 613	NCZ1011-120X	C CAPACITOR	12PF	
	C 614	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 615	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V	
	CN601	QGF0501F1-14X	FPC CONNECTOR		
	CN631	QGF0501F1-06X	CONNECTOR C.M		
	D 621	LT1F67AF-W	LED		
	D 622	LT1F67AF-W	LED		
	D 623	LT1F67AF-W	LED		
	D 624	LT1F67AF-W	LED		
	D 625	MA3051/M/-X	ZENER DIODE		
	D 631	SML-310FT/JKL/X	LED		
	D 632	SML-310FT/JKL/X	LED		
	D 633	SML-310LT/MN/-X	LED		
	D 634	SML-310FT/JKL/X	LED		
	D 635	SML-310FT/JKL/X	LED		
	D 636	SML-310FT/JKL/X	LED		
	D 637	SML-310FT/JKL/X	LED		
	D 638	SML-310FT/JKL/X	LED		
	D 639	SML-310FT/JKL/X	LED		
	D 640	SML-310FT/JKL/X	LED		
	D 641	SML-310FT/JKL/X	LED		
	D 642	SML-310FT/JKL/X	LED		
	D 643	SML-310FT/JKL/X	LED		
	IC601	LC75823W	IC		
	IC602	LC75823W	IC		
	L 611	NQLZ007-680X	INDUCTOR		
	L 612	NQR0303-001X	C FL TRANSF		
	L 613	NQL114K-470X	INDUCTOR		
	Q 611	2SD2185/R/-X	POW TRANSISTER		
	Q 612	2SD2185/R/-X	POW TRANSISTER		
	R 601	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 602	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 603	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 604	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 605	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 606	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 607	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 608	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 611	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 612	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 613	NRSA02J-681X	MG RESISTOR	680 5% 1/10W	
	R 621	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 622	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 623	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 624	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 627	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 628	NRSA02J-0R0X	RES. C.M	5% 1/10W	
	R 631	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 632	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 633	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 634	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 635	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 636	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 637	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 638	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 639	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	R 640	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 641	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 642	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 643	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 644	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 645	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	R 646	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 647	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 651	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 652	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 671	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 672	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 673	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 674	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 675	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	S 621	NSW0041-001X	TACT SW		
	S 622	NSW0041-001X	TACT SW		
	S 623	NSW0041-001X	TACT SW		
	S 624	NSW0041-001X	TACT SW		
	S 625	NSW0039-001X	TACT SW		
	S 631	NSW0041-001X	TACT SW		
	S 632	NSW0041-001X	TACT SW		
	S 633	NSW0041-001X	TACT SW		
	S 634	NSW0041-001X	TACT SW		
	S 635	NSW0041-001X	TACT SW		
	S 636	NSW0041-001X	TACT SW		
	S 637	NSW0041-001X	TACT SW		
	S 638	NSW0041-001X	TACT SW		
	S 639	NSW0041-001X	TACT SW		
	S 640	NSW0041-001X	TACT SW		
	S 641	NSW0041-001X	TACT SW		
	S 642	NSW0041-001X	TACT SW		
	S 643	NSW0041-001X	TACT SW		
	S 651	NSW0058-003X	REST SW		
	S 652	QSW0677-001X	PUSH SWITCH		
	S 653	QSW0677-001X	PUSH SWITCH		
	S 661	NSW0120-001X	PUSH SWITCH		
	S 662	NSW0119-001X	PUSH SWITCH		

■Switch P. C. B. (KD-LX3/KD-LX3R)

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BL611	QLL0059-001	BACK LIGHT		
	C 601	NBE20JM-475X	TS E CAPACITOR		
	C 602	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 603	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 604	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 605	NBE21AM-475X	TS E CAPACITOR		
	C 606	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 607	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 608	NCB21HK-104X	C CAPACITOR	.10MF 10% 50V	
	C 609	NDC21HJ-101X	C.CAPACITOR		
	C 610	NBE20JM-475X	TS E CAPACITOR		
	C 611	NBE21AM-106X	E CAPACITOR		
	C 612	NFV41HJ-183X	MPPS CAPACITOR	.018MF 5% 50V	
	C 613	NCZ1011-120X	C CAPACITOR	12PF	
	C 614	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 615	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V	
	C 625	NBE20JM-475X	TS E CAPACITOR		
	CN601	QGF0501F1-14X	FPC CONNECTOR		
	CN631	QGF0501F1-06X	CONNECTOR C.M		
	D 621	LT1F67AF-W	LED		
	D 622	LT1F67AF-W	LED		
	D 623	LT1F67AF-W	LED		
	D 624	LT1F67AF-W	LED		
	D 625	MA3051/M/-X	ZENER DIODE		
	D 631	SML-310FT/JKL/X	LED		
	D 632	SML-310FT/JKL/X	LED		
	D 633	SML-310LT/MN/-X	LED		
	D 634	SML-310FT/JKL/X	LED		
	D 635	SML-310FT/JKL/X	LED		
	D 636	SML-310FT/JKL/X	LED		
	D 637	SML-310FT/JKL/X	LED		
	D 638	SML-310FT/JKL/X	LED		
	D 639	SML-310FT/JKL/X	LED		
	D 640	SML-310FT/JKL/X	LED		
	D 641	SML-310FT/JKL/X	LED		
	D 642	SML-310FT/JKL/X	LED		
	D 643	SML-310FT/JKL/X	LED		
	IC601	LC75823W	IC		
	IC602	LC75811W	IC		
	IC603	RPM6938-V4	RM.RECEIVER		
	L 611	NQLZ007-680X	INDUCTOR		
	L 612	NQR0303-001X	C FL TRANSF		
	L 613	NQL114K-470X	INDUCTOR		
	Q 611	2SD2185/R/-X	POW TRANSISTER		
	Q 612	2SD2185/R/-X	POW TRANSISTER		
	R 601	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 602	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 603	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 604	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 605	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 606	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 607	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 608	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 609	NRSA02J-153X	MG RESISTOR	15K 5% 1/10W	
	R 611	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	

■Additional P. C. B. (KD-LX3/KD-LX3R)

BLOCK NO. 04

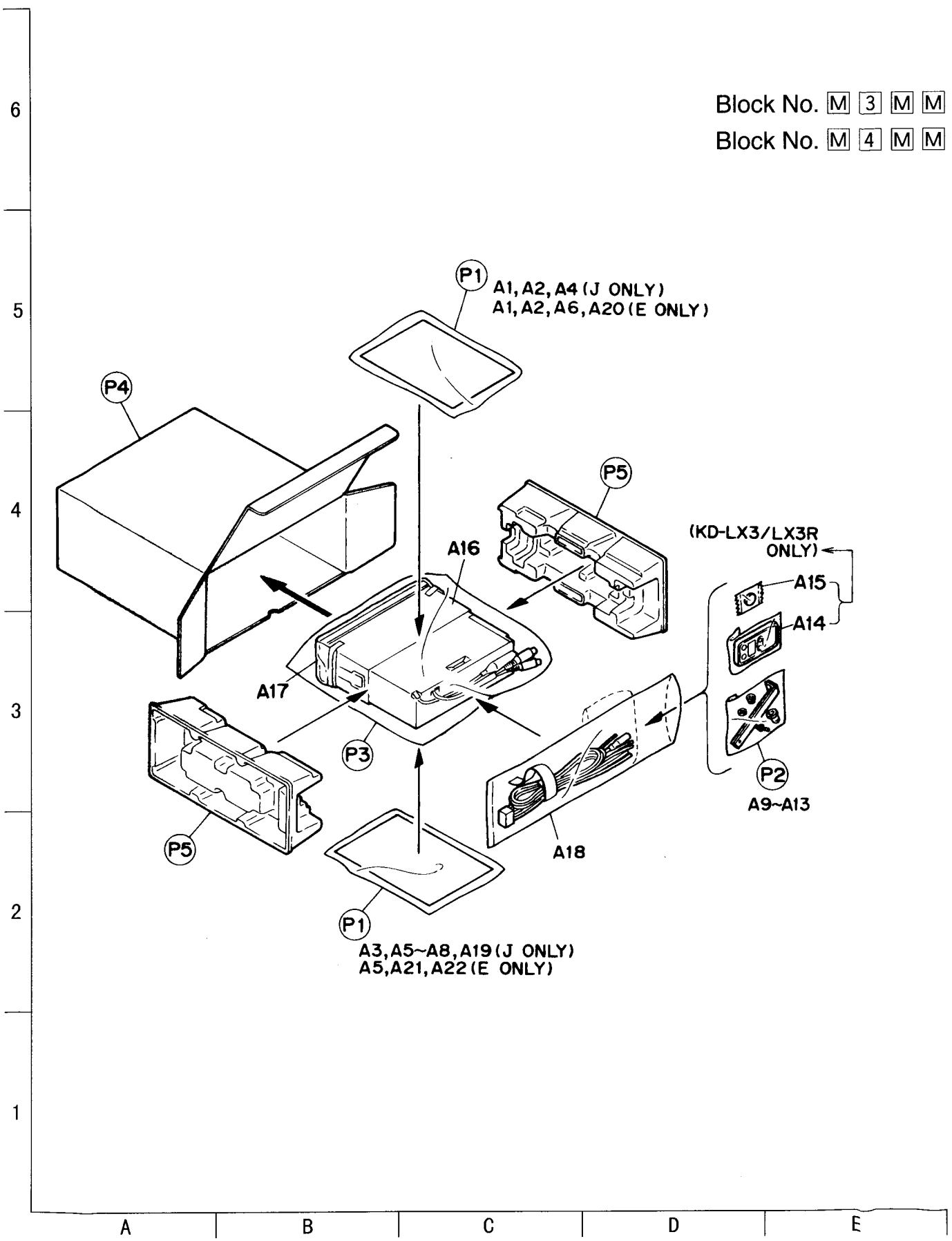
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 612	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 613	NRSA02J-681X	MG RESISTOR	680 5% 1/10W	
	R 621	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 622	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 623	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 624	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 625	NRSA02J-471X	RES. C.M	470 5% 1/10W	
	R 626	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 627	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 628	NRSA02J-0ROX	RES. C.M	5% 1/10W	
	R 631	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 632	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 633	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 634	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 635	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 636	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 637	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 638	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 639	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	R 640	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 641	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 642	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 643	NRSA02J-821X	MG RESISTOR	820 5% 1/10W	
	R 644	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 645	NRSA02J-182X	MG RESISTOR	1.8K 5% 1/10W	
	R 646	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 647	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 651	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 652	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 671	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 672	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 673	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 674	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 675	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	S 621	NSW0041-001X	TACT SW		
	S 622	NSW0041-001X	TACT SW		
	S 623	NSW0041-001X	TACT SW		
	S 624	NSW0041-001X	TACT SW		
	S 625	NSW0039-001X	TACT SW		
	S 631	NSW0041-001X	TACT SW		
	S 632	NSW0041-001X	TACT SW		
	S 633	NSW0041-001X	TACT SW		
	S 634	NSW0041-001X	TACT SW		
	S 635	NSW0041-001X	TACT SW		
	S 636	NSW0041-001X	TACT SW		
	S 637	NSW0041-001X	TACT SW		
	S 638	NSW0041-001X	TACT SW		
	S 639	NSW0041-001X	TACT SW		
	S 640	NSW0041-001X	TACT SW		
	S 641	NSW0041-001X	TACT SW		
	S 642	NSW0041-001X	TACT SW		
	S 643	NSW0041-001X	TACT SW		
	S 651	NSW0058-003X	REST SW		
	S 652	QSW0677-001X	PUSH SWITCH		
	S 653	QSW0677-001X	PUSH SWITCH		
	S 661	NSW0120-001X	PUSH SWITCH		
	S 662	NSW0119-001X	PUSH SWITCH		

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 791	2SA1362/G/-X	TRANSISTOR		
	Q 792	UN2211-X	TRANSISTOR		
	R 791	NRSA02J-123X	RES. C.M	12K 5% 1/10W	
	R 792	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	

Packing Materials and Accessories Parts List

Block No. M 3 M M
Block No. M 4 M M



■Packing List

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	QPA01703505P	POLY BAG		2		
	P 2	QPA00801205	POLY BAG		1		
	P 3	VPE3005-066	POLY BAG	SET	1		
	P 4	LV30957-001A	PACKING CASE	KD-LX1 ONLY	1		
		LV31012-001A	PACKING CASE	KD-LX3R ONLY	1		
		LV31103-001A	PACKING CASE	KD-LX3 ONLY	1		
	P 5	LV10193-001A	PAPER CUSHION		2		

■Accessories List

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0223-001A	INSTRUCTIONS	KD-LX1 ONLY	1		
		LVT0239-001A	INSTRUCTIONS	KD-LX3R ONLY	1		
		LVT0289-001A	INSTRUCTIONS	KD-LX3 ONLY	1		
	A 2	LVT0224-001B	INSTRUCT.SHEET		1	J	
		LVT0241-001A	INSTRUCT.SHEET		1	E	
	A 3	LVT0326-001B	TROUBLE SHOOTIN		1	J	
	A 4	LVT0330-001A	CAUTION SHEET		1	J	
	A 5	LVT0334-001A	CAUTION SHEET		1	J	
		LVT0334-002A	CAUTION SHEET		1	E	
	A 6	BT-52001-4	WARRANTY CARD		1	J	
		BT-51018-1	WARRANTY CARD		1	J	
		BT-54013-1	WARRANTY CARD		1	E	
	A 7	BT-20071B	SVC CENTER LIST		1	J	
	A 8	LV41155-001A	INFO. SHEET		1	J	
	A 9	VKZ4027-002	PLUG NUT		1		
	A 10	VKH4871-001	MOUNT BOLT		1		
	A 11	VKZ4328-001	LOCK NUT		1		
	A 12	WNS5000Z	WASHER		1		
	A 13	FSKL4010-002	HOOK		2		
	A 14	RM-RK25	REMOCON	KD-LX3/KD-LX3R	1		
	A 15	QAB0014-001	BATTERY	KD-LX3/KD-LX3R	1		
	A 16	FSKM2004-002SSF	MOUNTING SLEEVE		1		
	A 17	LV10187-001A	TRIM PLATE		1		
	A 18	QAM0106-001	CAR PLUG CORD		1	E	
		QAM0066-002	CAR CABLE		1	J	
	A 19	BT-51020-1	J=REGIST CARD		1	J	
	A 20	VND3050-002	IDENTITY CARD		1	E	
	A 21	LVT0240-001A	INSTRUCTIONS	KD-LX3R ONLY	1		
	A 22	LVT0242-001A	INSTRUCT.SHEET		1	E	
		LVT0243-001A	INSTRUCT.SHEET		1	E	
	KIT 1	KDGS717K-SCREW1	SCREW PARTS KIT	A9-A13	1		

KD-LX1
KD-LX3 KD-LX3R

JVC

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